ORDER NO. MD0305155C1

A6

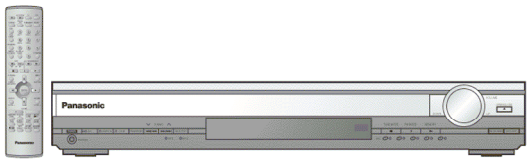
Service Manual

DVD Home Theater Sound System

SA-HT700P / SA-HT700PC

Colour

(S)... Silver Type



SPECIFICATIONS

Specifications

■ AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode, 10 % Total Harmonic Distortion

1 kHz Front CH	**55 W per channel (6 Ω)**
1 kHz Surround CH	**55 W per channel (6 Ω)**
1 kHz Center CH	**160 W per channel (6 Ω)**
100 Hz Subwoofer CH	**220 W per channel (4 Ω)**
Total RMS Dolby Digital Mode Power	**600 W**

RMS Output Power Stereo Mode: 10 % Total Harmonic Distortion

1 kHz Front CH	**45 W per channel (6 Ω)**
100 Hz Subwoofer CH	**220 W per channel (4 Ω)**
Total RMS Stereo Mode Power	**310 W**

FTC Output Power: Dolby Digital Mode, 1 % Total Harmonic Distortion

120 Hz - 20 kHz Front CH	**30 W per channel (6 Ω)**
120 Hz - 20 kHz Surround CH	**30 W per channel (6 Ω)**
120 Hz - 20 kHz Center CH	**110 W per channel (6 Ω)**
45 Hz - 120 kHz Subwoofer CH	**140 W per channel (4 Ω)**
Total RMS Dolby Digital Mode Power	**370 W**

FTC Output Power: Stereo Mode, 1 % Total Harmonic Distortion

120 Hz - 20 kHz Front CH	**25 W per channel (6 Ω)**
45 Hz - 120 kHz Subwoofer CH	**140 W per channel (4 Ω)**
Total FTC Stereo Mode Power	**190 W**
Input sensitivity/Input impedance	
AUX	**250 mV, 15 k Ω**

■ FM TUNER SECTION

Frequency range	**87.9 - 107.9 MHz (200 kHz steps)**
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	**2.5 μ V (IHF)**
S/N 26 dB	**2.2 μ V**
Antenna terminal(s)	**75 Ω (unbalanced)**
Preset station	**15**

■ AM TUNER SECTION

Frequency range	**520 - 1710 kHz (10 kHz steps)**
AM Sensitivity S/N 20 dB at 1000 kHz	
	560 μ V/m
Preset station	**15**

■ DISC SECTION

Disc played [8 cm (3”) or 12 cm (5”)]

(1) DVD-RAM (DVD-VR formatted disc)

(2) DVD-Audio

(3) DVD-Video

(4) DVD/R (DVD-Video formatted disc)

(5) CD-Audio (CD-DA)

(6) Video CD

(7) SVCD (Confirming to IEC62107)
(8) CD-R/CD-RW (CD-DA, Video-CD formatted disc)
(9) MP3/WMA
- Maximum number of tracks and groups recognizable:
999 tracks and 99 groups
- Compatible compression rate:
MP3: between 32 kbps and 320 kbps
WMA: between 48 kbps and 192 kbps
(10) JPEG
- Exif Ver 2.1 JPEG Baseline files
- Maximum number of pictures and groups recognizable:
3000 pictures and 300 groups
- Picture resolution: between 320 x 240 and 6144 x 4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)
(11) HighMAT Level 2 (Audio and Image)

Video	
Signal system	**NTSC**
Output level	
Composite video	**1 Vp-p (75 Ω)**
S-video Y output level	**1 Vp-p (75 Ω)**
C output level	**0.286 Vp-p (75 Ω)**
Component video (Y: green, PB: blue, PR: red)	
Y output level	**1 Vp-p (75 Ω)**
PB output level	**0.7 Vp-p (75 Ω)**
PR output level	**0.7 Vp-p (75 Ω)**
Audio	
Sampling frequency	
CD	**44.1 kHz**
MP3	**32 kHz, 44.1 kHz, 48 kHz**
DVD (Linear Audio)	**48 kHz, 96 kHz**
DVD-Audio	**192 kHz**
Decoding	**16/20/24 bit linear**
Number of channels	**5.1 ch (FL, FR, SL, SR, C, SW)**
Frequency response	**20 Hz - 20 kHz (+1, -2 dB)**
Pick up	
Beam Source	**Semiconductor Laser**
Wavelength	
DVD	**658 nm**
VCD/CD	**780 nm**
Wow and flutter	**Less than possible measurement data**
D/A converter	**Delta sigma DAC**
■ **GENERAL**	
Power Supply	**AC 120 V, 60Hz**
Power consumption	
Main unit	**25 W**
Subwoofer	**250 W**
Power Consumption in standby mode	**0.5 W**
Dimensions (W x H x D)	**430 x 67 x 427 mm**

	(16 15/16” x 2 5/8” x 16 7/8”)
Mass	4.3 kg (9.5 lb.)
■ SYSTEM	
■ System : SC-HT700 (P)	Main unit: SA-HT700 (P)
	Front and Surround speaker: SB -FS803A (P)
	Center speaker: SB-PC703 (P)
	Active subwoofer: SB-WA340 (PP)

Notes:

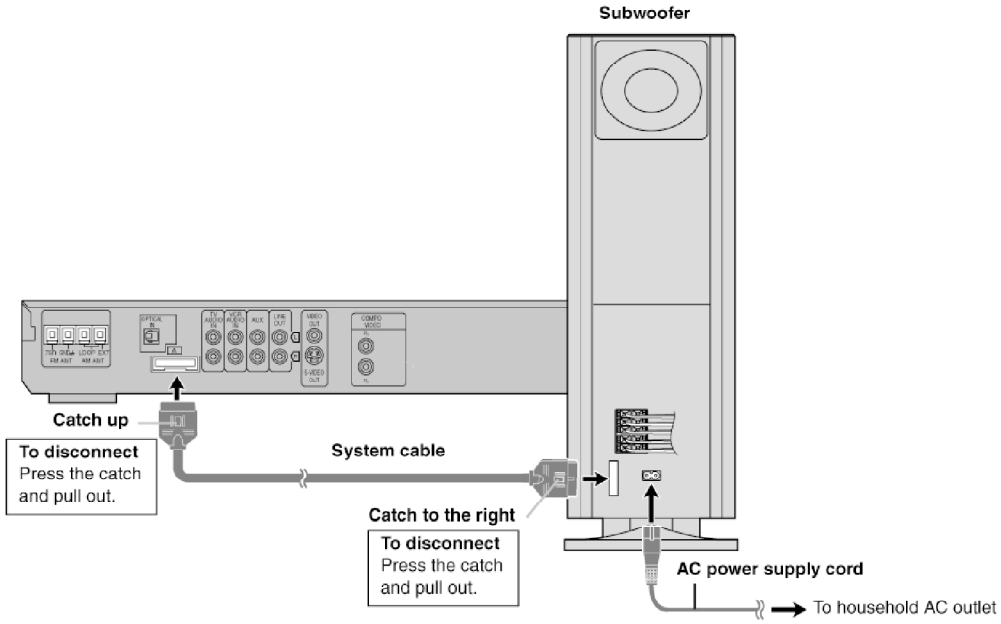
1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Panasonic

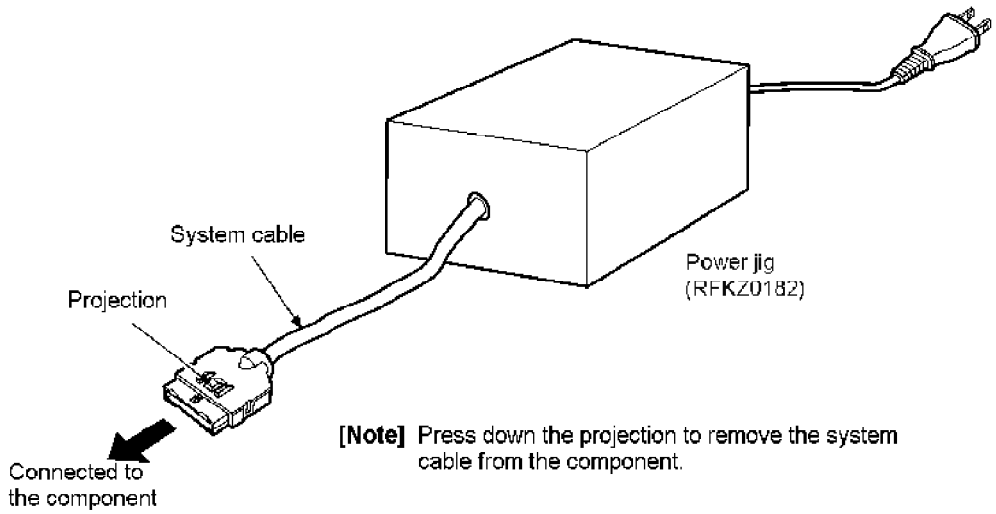
1. Use of Active Subwoofer

1.1. Checking Player when Active Subwoofer is Not Used

1. This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.



2. If the active subwoofer is not available due to repair of the unit, use the following equipment.



Jig product number
RFKZ0182 (110V , 127V, 220V, 230V - 240V for for overseas domestic use)

2. Before Repair and Adjustment (Using Active Subwoofer Unit)

Disconnect AC power, discharge Power Supply Capacitors C546 , C547, C548 & C549 through a 10 Ω, 1W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 120V, 60Hz in NO SIGNAL mode should be ~1000 mA .

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is switched ON.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
shorted, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlines below:

1. **Switch OFF the power.**
2. **Determine the cause of the problem and correct it.**
3. **Switch ON the power once again.**

Note :
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

4. Safety Precautions

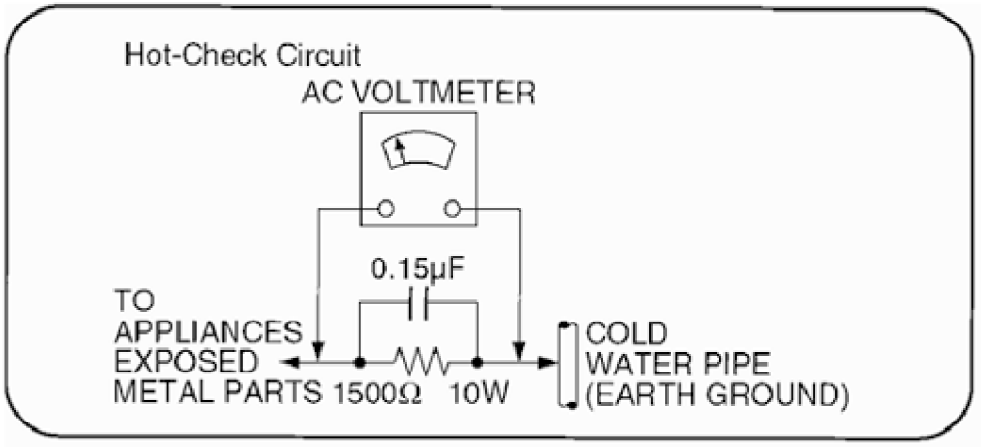
4.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

4.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω .**
   When the exposed metal does not have a return path to the chassis, the reading must be ~.

Figure 1



4.1.2. Leakage Current Hot Check / (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

5. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of

component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

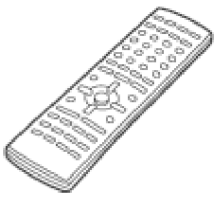
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

IMPORTANT SAFETY NOTICE

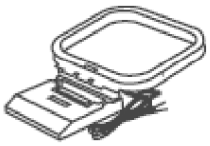
There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

6. Accessories

Remote control

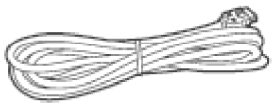


AM loop antenna

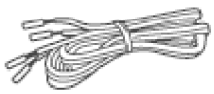


FM loop antenna

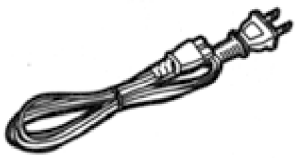
System cable



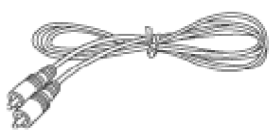
5 Speaker cables



AC power supply cord



Video Cable



7. Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.
Invisible laser radiation is emitted from the optical pickup lens.
Wavelength: 658nm(DVD)/780nm(VCD/CD).
Maximum output radiation power from pickup: 100 μ W/VDE
When the unit is turned on :

1. **Do not look directly into the pick up lens.**
2. **Do not use optical instruments to look at the pick up lens.**
3. **Do not adjust the preset variable resistor on the pickup lens.**
4. **Do not disassemble the optical pick up unit.**
5. **If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.**
6. **Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

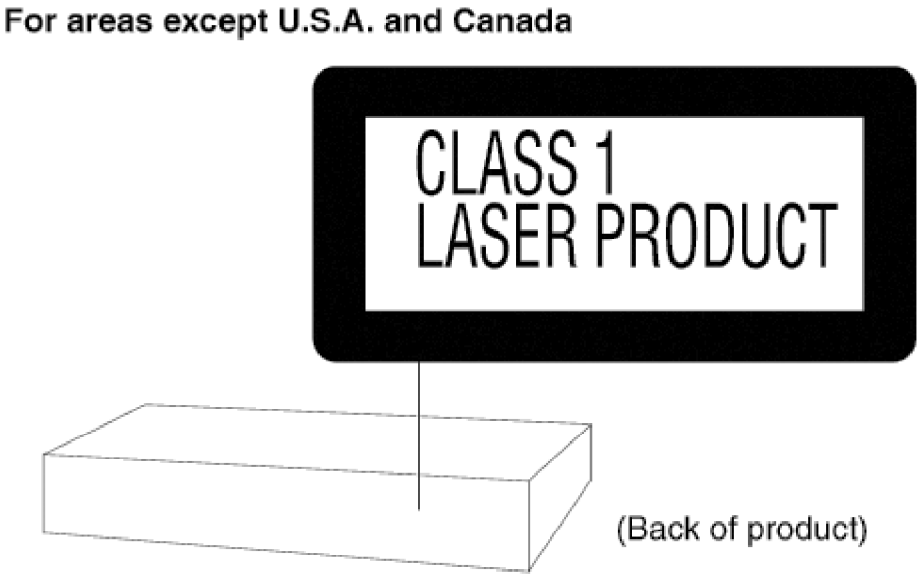
CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THC SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ **Use of Caution Labels**

CAUTION - LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM FDA 21 CFR / Class
CAUTION - VIS BLE AND NV SIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM EC60825 1 / C ass 3b
VARNING - SYNL G OCH OSYNL G LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
ADVARSEL - SYNL G OG USYNL G LASERSTRÅLING VED ÅBN NG. UNDGÅ UDSÆTTELSE FOR STRÅL NG.
ADVARSEL - SYNL G OG USYNL G LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPON ERING FOR STRÅLEN.
VARO! AVATTAESSA OLET ALTTI NA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. N CHT DEM STRAHL AUSSETZEN
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOS TION DANGEREUSE AU FAISCEAU
注意 - 打开时有可见及不可见激光辐射，避免激光束照射。
注意 - ここを開くと可視及び不可視レーザー光が出ます。ビームを見たり、触れたりしないで下さい。 RGLX30054

(Inside of product)



8. Handling the Lead-free Solder

8.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).

- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

9. Cautions to be taken when handling Optical Pickup

The laser diode used inside optical pickup could be destroyed due to static electricity as a potential difference is caused by electrostatic load discharged from clothes or human body. Handling the parts carefully to avoid electrostatic destruction during repair.

9.1. Handling Optical Pickup

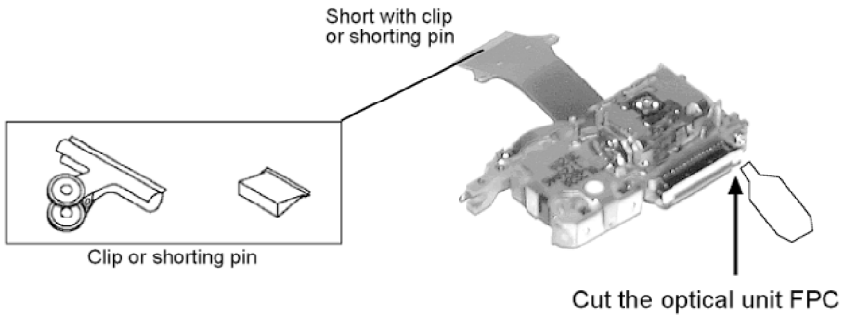
1. Do not impact on optical pickup as the unit structurally uses an extremely precise technology.

2. Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent

laser diode from electrostatic destruction (Refer to Fig. 9.1 and Fig. 9.2)

3. Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 9.1)
4. A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 9.1)

Fig. 9.1



9.2. Cautions to be taken during replacement of Optical Pickup

Supplied optical pickup is equipped with a short clip found its flexible cable in order to prevent electrostatic destruction of laser diode. Before connection, remove the short clip, and check that the short land is opened. (Remove solder if the part is short-circuit).

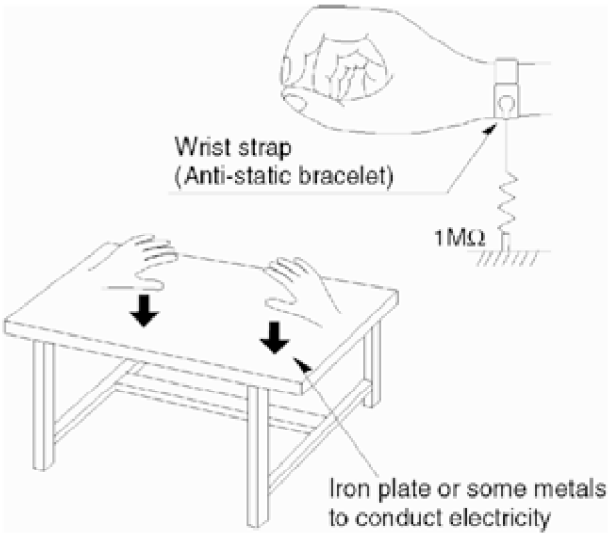
9.3. Grounding for Preventing Electrostatic Destruction

1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 9.2)
2. Work place grounding
   Place a conductive material (conductive sheet) or ironboard where optical pickup is placed. (Refer to Fig. 9.2)

Note :

Keep your clothes away from optical pickup as wrist strap does not release the static electricity charged in clothes.

Fig. 9.2

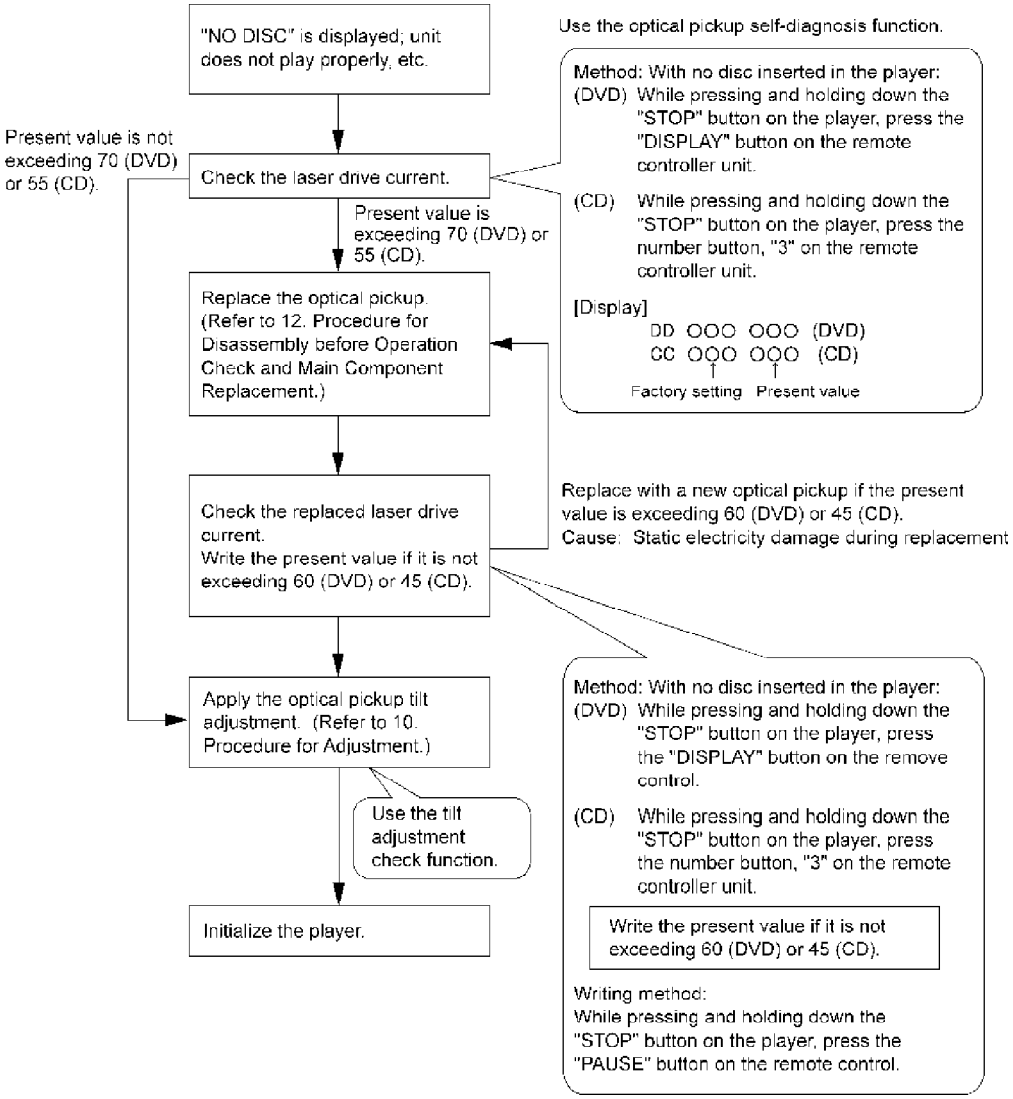


10. Optical Pickup Self-Diagnosis and Replacement Procedure

10.1. Self-diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when “NO DISC” is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 70 (DVD) or 55 (CD).

Note:
Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).


"NO DISC" is displayed; unit does not play properly, etc.
Use the optical pickup self-diagnosis function.
Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remote controller unit.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.
[Display]
DD OOO OOO (DVD)
CC OOO OOO (CD)
Factory setting
Present value
Present value is not exceeding 70 (DVD) or 55 (CD).
Check the laser drive current.
Present value is exceeding 70 (DVD) or 55 (CD).
Replace the optical pickup. (Refer to 12. Procedure for Disassembly before Operation Check and Main Component Replacement.)
Check the replaced laser drive current.
Write the present value if it is not exceeding 60 (DVD) or 45 (CD).
Replace with a new optical pickup if the present value is exceeding 60 (DVD) or 45 (CD).
Cause: Static electricity damage during replacement
Apply the optical pickup tilt adjustment. (Refer to 10. Procedure for Adjustment.)
Use the tilt adjustment check function.
Initialize the player.
Method: With no disc inserted in the player:
(DVD) While pressing and holding down the "STOP" button on the player, press the "DISPLAY" button on the remove control.
(CD) While pressing and holding down the "STOP" button on the player, press the number button, "3" on the remote controller unit.
Write the present value if it is not exceeding 60 (DVD) or 45 (CD).
Writing method:
While pressing and holding down the "STOP" button on the player, press the "PAUSE" button on the remote control.

10.2. Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

Before replacing the optical pickup and spindle motor, check a total usage time respectively. Follow the checking method described below.

Item	Status and Key Function	Display
Checking DVD, CD laser usage time	With the unit stopped and no disc inserted, press the. ■ button on the player and the ▲ button on the remote controller unit.	_xxxx_yyyy / xxxx(DVD), yyyy total time is displayed with a t digit number by the ten hours
Checking spindle motor usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▶ button on the remote controller unit.	T2_xxxx / xxxx: total time is d with a four-digit number by th hours.
Resetting DVD, CD laser usage time	While the DVD and CD laser usage times are displayed, press the ■ button on the player and the ▼ button on the remote controller unit.	T2_0000_0000
Resetting spindle motor usage time	While the spindle motor usage time is displayed, press the ■ button on the player and the ◀ button on the remote controller unit.	T2_0000

10.2.1. Cautions to be taken during replacement of optical pickup

Optical pickup could be damaged due to the static electricity discharged from human body. Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to "Cautions to Be Taken When Handling Optical Pickup".)

- Do not touch laser diode, actuator and their peripherals.

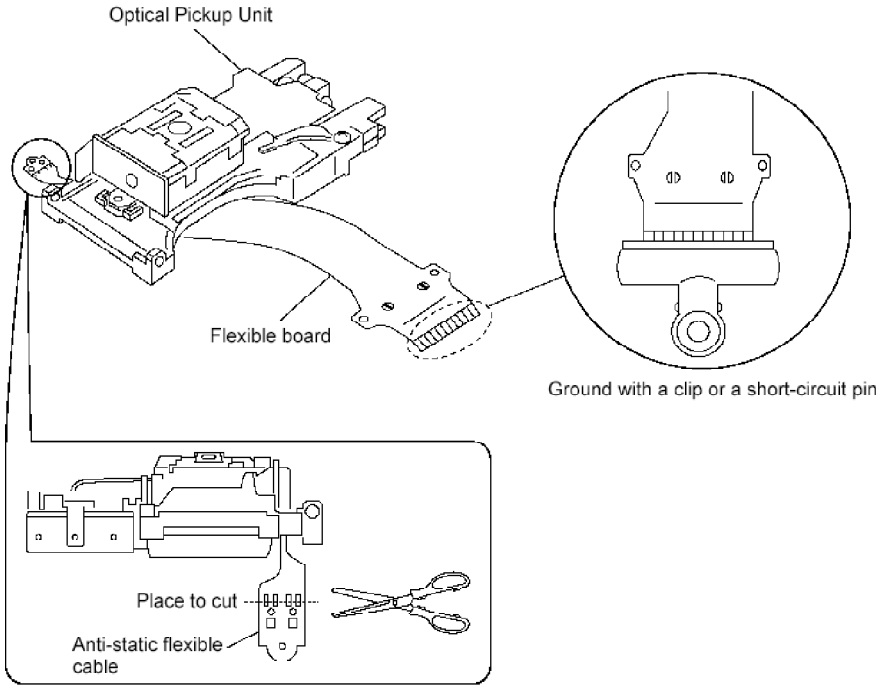
- Do not check laser diode with a tester and such. (The tester will be destroyed.)

- For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. (Recommended model: HAKKO ESD product)

- Solder the land of the flexible cable in the optical pickup.

Note:

If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.



11. Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

11.1. Automatic Displayed Error Codes

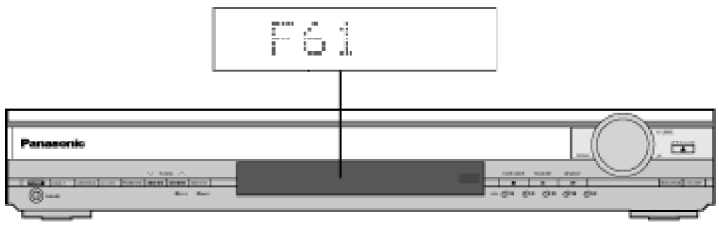
11.1.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.

Fig. 11-1



11.1.2. Re-Display

- For F61 Display

- When the code, F61 is displayed, the power is automatically turned off.

- The code, F61 is displayed for three seconds, and then the current time appears.

- To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds,

and the power is automatically turned off.

11.1.3. Description of Error Code

11.1.3.1. F61

- State, Condition

  When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

  Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

11.2. Memorized Error Codes

11.2.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button for at least two seconds, and press the “0” button on the remote control for at least two seconds in order to display “DVD_F_ _ _ ”.
3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) / If several errors are detected, press the ■ button to display each.

Fig. 11-2

11.2.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.
- The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, “Activating Self-Diagnosis Function and Displaying Method”.

11.2.3. Deleting Details of Self Diagnosis

- After repair, press and hold down the ■ button for at least five seconds, [CLEAR] appears for a second and then “T_____” appears. (Deleting the details of self diagnosis)
- After repairing errors, be sure to delete the details of self diagnosis.

11.3. Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote controller unit	Usage
■ button	0	Error code display (Refer to the item, 11.4. DVD Error Code Desc
	5	Tilt adjustment
	6	Region number and broadcasting system check
	7	Built-in program version check
	DISPLAY	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical p (Do use this function only when optical pickup is replaced.)
	≧10	Initialization of the player (factory setting is restored.) / Used aft replacement of micro-computer and its peripherals and printed c board.

11.4. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV serv
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
DSC system		
F500	DSC failure	DSC stops due to servo failure. / (Startu failure, etc.)
F501	DSC not Ready failure	Communication failure between DSC an computer / (No communication because does not move)
F502	DSC Time out failure	See F500.
F503	DSC communication failure	Communication failure (Result failure oc communication command is transmitted
F505	DSC Attention Error	See F500.

Error Code	Meaning	Details
F506	Invalid media	Disc is placed upside down; TOC is unre invalid disc is inserted.
Disc Code		
F103	Ilegal highlight position	Disc standard is possibly illegal when hi displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
F880	Unsuitable task number	When a message arrives from not existir
F890	A message is sent during AV task transmission	During transmission of a message to AV
F891	Unable to transmit a message to AV task	When transmission of a message to AV t
F893	FROM altered	
F894	EEPROM failure	
F8A0	Unsuitable message command	When transmission of a message to AV t

11.5. Error Codes Stored During No Play

Error Code	Meaning	System Computer Item	Setting Task	Intern in sy com
F0BF	6) Unable to replay due to physical layer identification failure	PCND_NOPLAY_PHYSICAL 0x50	DriveManager	0xD0BI
F0C0	8) DVD: Unable to replay due to no DVD Video/Audio/VR	PCND_NOPLAY_VIDEO 0x70	DiscManager	0xD0C(
F0C1	9) DVD: Prohibited due to illegal regional code	PCND_NOPLAY_RCD 0x80	DiscManager	0xD0C1
F0C2	A) DVD: No replay due to PAL system	PCND_NOPLAY_PAL 0x90	DiscManager	0xD0C2
F0C3	B) DVD: All title replay prohibited in parental setting	PCND_NOPLAY_PTL 0xA0	DiscManager	0xD0C3
F0C4	C) VCD: Prohibited due to PHOTO CD format	PCND_NOPLAY_PHOTOCD 0xB0	DiscManager	0xD0C4
F0C5	D) VCD/CD: Prohibited due to CD-ROM without CD-DA	PCND_NOPLAY_CDROM 0xC0	DiscManager	0xD0C5

11.6. Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	To I
Jitter display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.	Jitter display / Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	J*1 xxx*2 _yyy*3 _zz*4 / / *1 : Jitter display mode / *2 : Jitter measurement value / *3 : Read error counter / *4 : Focus driving value Values are shown to one decimal place in the decimal digit.Focus driving value is displayed in the hexadecimal digit.	Pres STO OPE
Error code display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “0” on the remote controller unit.	Error code display / Displays the latest error code stored in EEPROM.	DVDnn_F--- / *nn: Error history / *--: Error number	Autc exits mod five
Measurement of laser current electricity initialization value	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▮▮ button on the remote controller unit.	Measurement of laser current electricity initialization value / Memorizes each initialization value of DVD and CD in EEPROM.	LDO*1 _034*2 _028*3 / / *1 : Laser current electricity measurement mode / *2 : DVD current electricity value / *3 : CD current electricity value Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 34mA at DVD laser and 28mA at CD laser when laser is turned on.	Autc exits mod five

Item	Operational Condition and Key Function	Details	Display	To
Measurement of DVD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the DISPLAY button on the remote controller unit.	Measurement of DVD laser current electricity / Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDD*1 _034*2 _032*3 / / *1 : DVD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 34mA and its present value is 32mA.	Auto exits mod five
ADSC internal RAM display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “1” or “2” on the remote controller unit.	ADSC internal RAM display / Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	A*1 _0FA*2 _6901*3 / / *1 : ADSC internal RAM display mode / *2 : Address / *3 : RAM value at displayed address Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, 0FAh is 6901h.	Pres STO OPE
Measurement of CD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “3” on the remote controller unit.	Measurement of CD laser current electricity / Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDC*1 _028*2 _026*3 / / *1 : CD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 28mA and its present value is 26mA when laser is turned on.	Auto exits mod five

Item	Operational Condition and Key Function	Details	Display	To
User initialization	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button ≧10 on the remote controller unit.	User initialization / The user setting recovers the factory setting.	“INITIALIZE”	Non
Region display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “6” on the remote controller unit.	Region display	[srrrxxyzzzz] / / s : Panecon model type / rrr : Panecon release number / x : Syscon generation (45) / y: Syscon model type / zzz: Syscon release number	Auto exits mod five
Firm version display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit.	Firm version display	rrr*1 _xx*2 y*3 zzz*4 / / *1 : Panel computer release number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Auto exits mod five

Item	Operational Condition and Key Function	Details	Display	To I
Region and firm display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.	Region and firm version display	_r*1 __xx*2 y*3 zzz*4 / / *1 : Region number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Autc exits mod five
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▲ button on the remote controller unit.	Laser usage time / Measures each for DVD and CD respectively.	T_1234_5678 / / The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Autc exits mod five
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Laser usage time reset / Resets both for DVD and CD at once.	_0000_0000	Autc exits mod five

Item	Operational Condition and Key Function	Details	Display	To I
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T___T2_1234 / / The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Autc exits mod five
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset / Spindle motor usage time	T2_0000	Autc exits mod five
Communication error display /	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the MENU button on the remote controller unit.	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	-ERR_00/30	Autc exits mod five

11.7. Tray Lock Function

11.7.1. Setting

- Disc Lock Function

1. With the SELECTOR on DVD/CD and POWER ON, hold down the [■ STOP] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter to Lock mode A.[_ _ _LOCKED_] will be displayed for 3 seconds, and then

current disc will begin playing.

2. In Lock mode A, the following key is disabled.
[OPEN/CLOSE]

- Operation Lock Function

1. With the SELECTOR on DVD/CD and POWER ON, hold down the [CD PLAY] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B. [_ _ _ LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.

2. Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.

Note:

OPEN/CLOSE ⏏ button are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. Select the DVD/CD function.

2. Press and hold down the ▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)

Note:
The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

Main unit: POWER , STOP , SELECTOR , DISC SKIP , VOLUME, DOWN, UP

Remote control: C.S.M,SLEEP , REPEAT , 1-9, 0, ≧10/-/-- , RETURN ,
FL DISPLAY , CH SELECT, TEST , DISPLAY ,
STOP , PAUSE , ⏮ , ⏭ , ◀◀ , ▶▶ ,
MUTING, SET UP , GROUP , P. MEMORY , TUNER/BAND ,
DVD/CD , AUX

11.8. Things to Do After Repair

Follow the procedure described below after repair.

1. While the power is on, press the ⏏ button to close the tray.

2. Press the power button to turn off the power.

3. Unplug the power cable.

Note:
It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

12. Cautions To Be Taken During Servicing

12.1. Recovery after the dvd player is repaired

- When FLASH ROM or module P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.

- Recovery disc (Product number=RFKZD03R004)

- Performing recovery

1. **Load the recovery disc (Product number: RFKZD03R004) to the player and run it.**
2. **Recovery is performed automatically. When it is finished, a message appears on the screen.**
3. **Remove the recovery disc.**
4. **Turn off the power.**

Note:
This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item “Initialization” in 9.6 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

12.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:
Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM and restart version upgrade. Version upgrade disc number is informed when ordered.

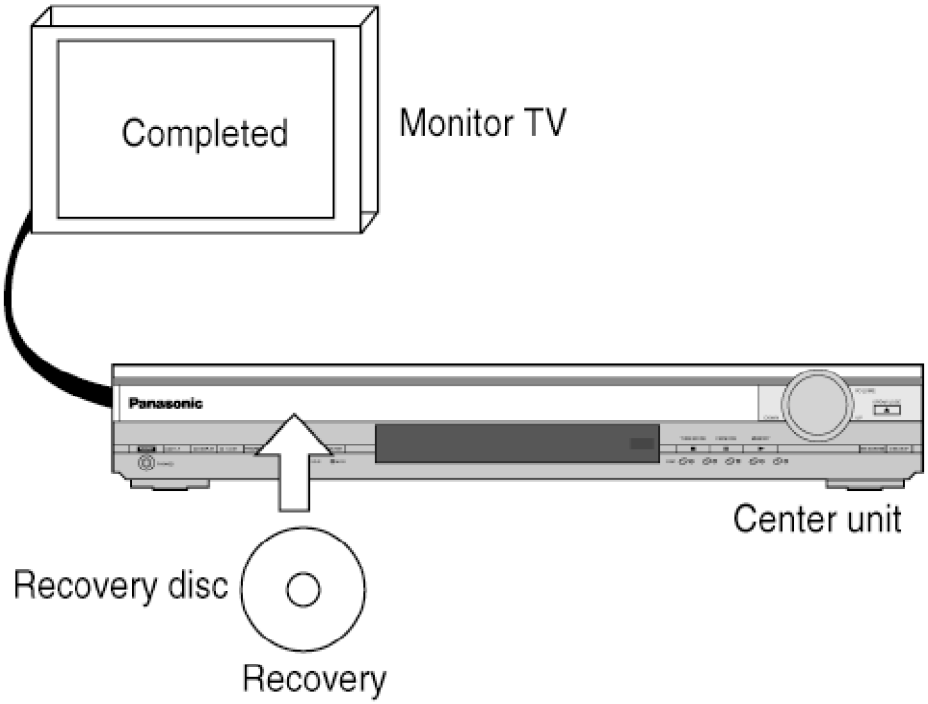
12.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process

- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD-R disc allows version upgrade process and recovery process, making version upgrade through

disc simple. / Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board / Version upgrade process: Renewal of firmware for improvement of operational range and performance



12.3.1. Self-Diagnosis Function

- Total usage time display (spindle motor, DVD/CD laser)
- ADSC internal RAM display
- Others: Last error count.....20 items

Efficiency of failure diagnosis is expected to improve by using the above functions together with the repair process.

[Purpose of Use]
Total usage time display: used for estimating a failure due to exhausted spindle motor, laser, or other parts.
ADSC internal RAM display: used for deciding servo system failure according to servo learning values.

12.4. Using Recovery Disc

12.4.1. Recovery Process

1. **Insert the recovery disc (RFKZD03R004) to the player to replay.**
2. **The recovery process automatically starts, and a message of completion prompts on the screen.**
3. **Remove the disc.**

4. Turn off the power.

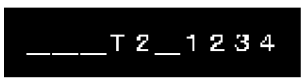
12.4.2. Version Upgrade Process

1. Insert the recovery disc to the player to replay.
2. The version of player is automatically checked and prompts if necessary.
3. Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)
4. a. If YES is selected, the process starts.
   b. If NO is selected, only the recovery process is applied.
5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.
   b. Follow the instruction appearing on the screen, and remove the disc.
6. Turn off the power.

12.5. Total Usage Time Display

1. Details of Operation/Display

Total usage time of DVD/CD lasers
Time is shown by the ten hours in the decimal digit.



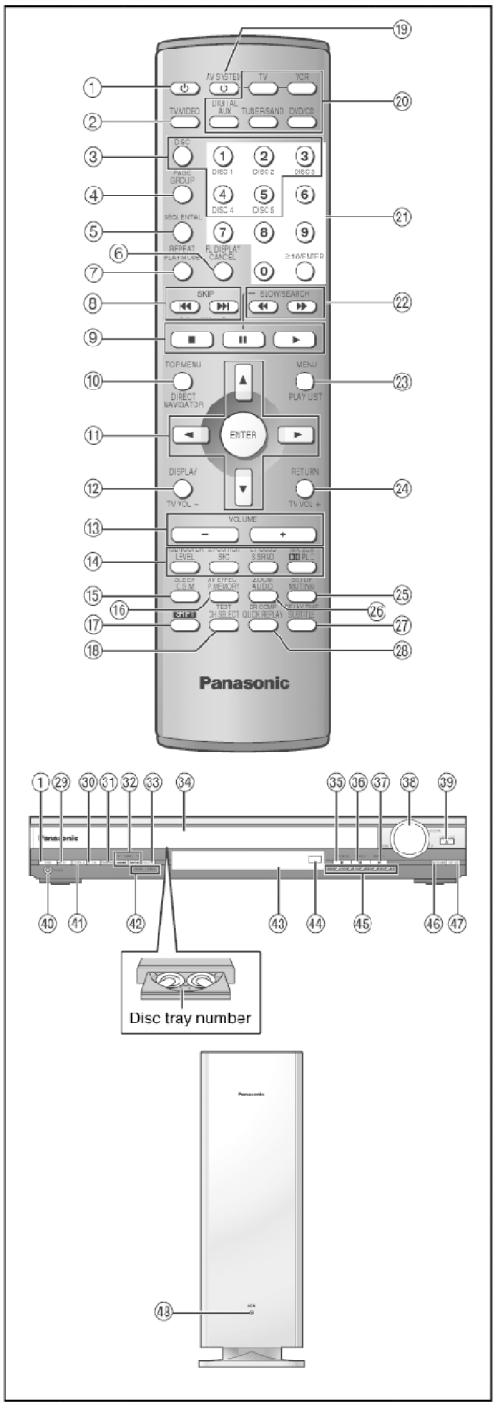
Total usage time of spindle motor
Time is shown by the ten hours in the decimal digit.

Keys for Operation: / Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▲ button on the remote controller unit. / Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▶ button on the remote controller unit. / / To reset the usage time, while the usage time is displayed: / Laser usage time: press both the ■ button on the player and the ▼ button on the remote controller unit. / Spindle motor usage time: press both the ■ button on the player and the ◀ button on the remote controller unit.

2. Purpose of Use
   To obtain reference data of laser and spindle motor systems during failure diagnosis. / To check faulty parts during re-repair.

13. Operation Procedure

Control reference guide



Remote control

① Standby/on switch [⏻]
② TV/VIDEO button [TV/VIDEO]
③ Disc select button [DISC], Disc buttons [DISC1]–[DISC5]
④ Group, Page button [GROUP, PAGE]
⑤ Sequential button [SEQUENTIAL]
⑥ Cancel, FL display button [CANCEL, FL DISPLAY]
⑦ Play mode, Repeat button [PLAY MODE, REPEAT]
⑧ Skip, Preset channel, TV channel button
[|◀◀ ▶▶|, SKIP, ∨ CH ∧]
⑨ Basic operation buttons
⑩ Top menu, Direct navigator button
[TOP MENU, DIRECT NAVIGATOR]
⑪ Cursor buttons [▲, ▼, ◀, ▶], Enter button [ENTER]
⑫ Display, TV volume down button [DISPLAY, TV VOL–]
⑬ Volume buttons [–, +, VOLUME]
⑭ Sound field, sound quality buttons
Dolby Pro Logic button [□□PL]
⑮ Custom sound memory, Sleep button [C.S.M, SLEEP]
⑯ Position memory button [POSITION MEMORY]

⑰ Shift button [SHIFT]
To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.
⑱ Channel select, Test button [CH SELECT, TEST]
⑲ AV system standby/on button [⏻, AV SYSTEM]
⑳ Source select buttons
Face towards this unit to change the source.
Press [TV] or [VCR] first to operate a Panasonic television or video cassette recorder.
AUX button [AUX]
㉑ Numbered buttons [1–9, 0, ≧10/ENTER]
㉒ Slow/search, Tuning buttons
[◀◀, ▶▶ SLOW/SEARCH]
㉓ Menu, Play list button [MENU, PLAY LIST]
㉔ Return, TV volume up button [RETURN, TV VOL+]
㉕ Muting, Setup button [MUTING, SETUP]
㉖ Audio, Zoom button [AUDIO, ZOOM]
㉗ Subtitle button [SUBTITLE]
㉘ Quick replay button [QUICK REPLAY]

Main unit

① Standby/on switch [⏻/I, POWER]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
㉙ Standby/on indicator [⏻/I]
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
㉚ Custom Sound Memory button [C.S.M]
㉛ Progressive out button [PROGRESSIVE]
㉜ Skip/search, Tuning buttons
[|◀◀/◀◀, ▶▶/▶▶|, ∨ TUNING ∧]
㉝ Source select button [SELECTOR]
DVD/CD→FM→AM→TV→VCR→AUX
㉞ Drawer
㉟ Stop, Tune mode button [■, TUNE MODE]
㊱ Pause, FM mode button [❚❚, FM MODE]
㊲ Play, Memory button [▶, MEMORY]
㊳ Volume control [VOLUME, DOWN, UP]
㊴ Drawer open/close button [⏏, OPEN/CLOSE]
㊵ Headphone jack [PHONES]
㊶ Multi rear surround, Virtual rear surround indicators
[M.R.S, V.R.S]
㊷ Display
㊸ Remote control signal sensor
㊹ Disc indicators [DISC 1–5]
㊺ Disc exchange button [DISC EXCHANGE]
㊻ Disc skip button [DISC SKIP]

Subwoofer

㊼ AC supply indicator [AC IN]
This indicator lights when the unit is connected to the AC mains supply.

14. Disc information

■ Discs that can be played

DVD-RAM	DVD-Audio	DVD-Video	DVD-R	SVCD	Video CD	CD	CD-R/RW
Shown as "DVD-VR" on the display				Conforming to IEC62107			–
RAM	DVD-A	DVD-V		VCD		CD	WMA* MP3 JPEG*

*DVD-F61 is not compatible with WMA, JPEG, or HighMAT. References to them apply only to DVD-F65.

Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly. Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.

It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SACD, Divx Video Discs, Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number	Example
U.S.A. and Canada	1	
Asia	3	
Australia and N.Z.	4	

■ Built-in decoders

This unit has Dolby Digital and DTS decoders so you can enjoy these systems in stereo without connecting a separate decoder.

■ Video systems

Units for Asia, Australia and N.Z.:

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (➜ page 18, Video—NTSC Disc Output).
- Output is interlace (576I) when playing PAL discs.

Units for the U.S.A. and Canada:

NTSC is used. This unit converts still pictures on PAL system DVD-Audio discs for play on NTSC video systems. The picture is compressed to show it in its entirety, but this may cause it to be stretched vertically.

■ Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

■ DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove discs from their cartridges before use and return them when you are finished, making sure that the labels of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

■ DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

■ CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, SVCD (conforming to IEC62107), WMA, MP3, or JPEG. Close the session or finalize after recording.

See page 11 for more information about WMA, MP3, and JPEG.

■ HighMAT discs

This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

■ Disc structure

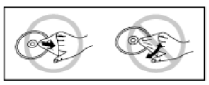
Disc structure and the labels given to the items on discs depend on the disc type.

Track: the smallest division on DVD-Audio, CDs, and Video CDs, or a single WMA/MP3 file.
Chapter: the smallest division on DVD-Video.
Group: collections of tracks on DVD-Audio and equivalent to folders or albums on data discs.
Title: the largest division on DVD-Video, usually an entire movie.
Program: the division on DVD-RAM equivalent to a single recording.
Picture: a single JPEG file.
Play list: the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.
Scene: DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.
Content: covers tracks and pictures on HighMAT discs.

■ To clean discs

DVD-Audio, DVD-Video, Video CD, CD

Wipe with a damp cloth and then wipe dry.



DVD-RAM, DVD-R

- Clean only with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.

■ Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.

Decoder
A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range
Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Film and video
DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

Frame still and field still
Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.
One frame is made up of two fields. A regular television shows these fields one after the other to create frames.
A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

Interlace and progressive output
NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480P. The video signals output from this unit's COMPONENT VIDEO OUT terminals (Y, P_B, P_R) allow you to enjoy higher quality pictures than if the signals were output from the VIDEO OUT terminal or S-VIDEO OUT terminal.

I/P/B
MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.
I: Intra coded picture
This picture has the best quality and is the best to use when adjusting the picture.
P: Predictive coded picture
This picture is calculated based on past I or P-pictures.
B: Bidirectionally-predictive coded picture
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)
These are uncompressed digital signals, similar to those found on CDs.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus.

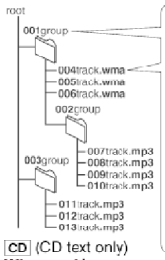
WMA, MP3, CD text and JPEG information
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- The order tracks appear in the menus may differ to the order shown on your computer.

WMA
- Noise may occur when playing WMA files.
- You cannot play WMA files that are copy protected.

MP3
- This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.

JPEG
- To view JPEG files on this unit:
  — Take them on a digital camera that meets the DCF (Design rule for Camera File System) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture un-viewable.
  — Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, Motion JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.

Order of play
WMA MP3 JPEG



Naming folders and files
Prefix folder and file names with 3-digit numbers in the order you want to play them.

Extension
004track.wma (or .WMA)

The extension for MP3 is **".mp3"** or **".MP3"**.
The extension for JPEG is **".JPG"**, **".jpg"**, **".JPEG"** or **".jpeg"**.

CD (CD text only)
When making your own CD text discs
The unit plays the tracks in the order you record them so you do not have to prefix the titles with numbers.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

15. About HighMAT

15.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co., Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard. HighMAT is a a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

15.2. Why use HighMAT?

Up to now, there was no harmonized standard fro playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players.Therefore, we used to have

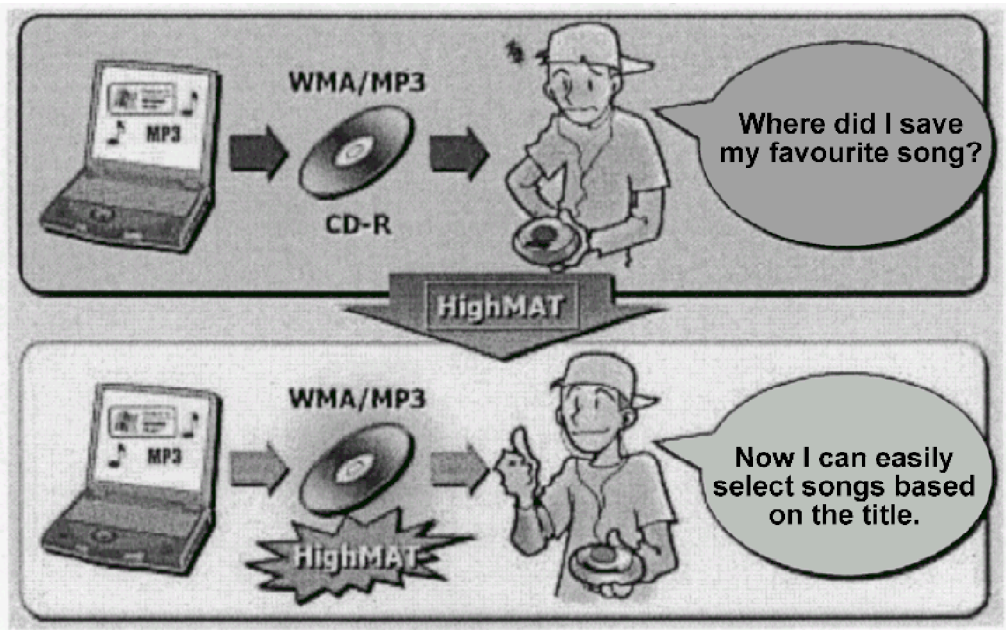
probblems such as follow:

- **There was no common play list or attached information on contents, which is called metadata.**
- **The data compression method differed according to the equipment.**
- **As the number of CD-ROMs recorded increased retrieved the contents became more difficult.**
- **Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.**

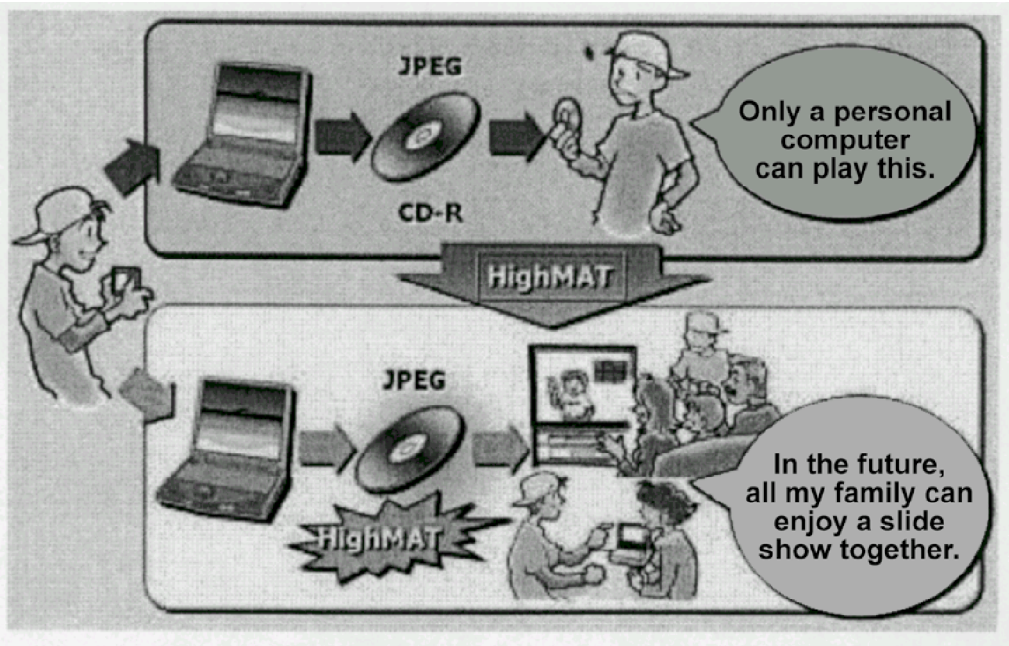
15.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- **It will create a common user interface for both PC and consumer products.**



- **Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.**

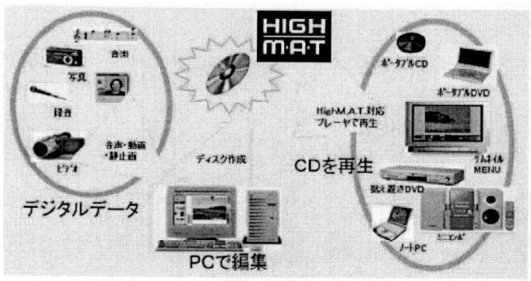


- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

15.4. Outline of the HighMAT standard

1. Recording medium

- CD-R/CD-RW
- Supports ISO 9660 Level Expanded Joliet
- For multiple session



2. Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)
- Level 2 player: WMA, MP3 (MPEG-1 Audio Leyer 3), JPEG
- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)

3. Limitation of data format

- **WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.**
- **WMA, V2 and above, excluding Lossless/Voice/Pro**
- **JPEG: Max 6M pixel, Maximum file size: 3 MB**

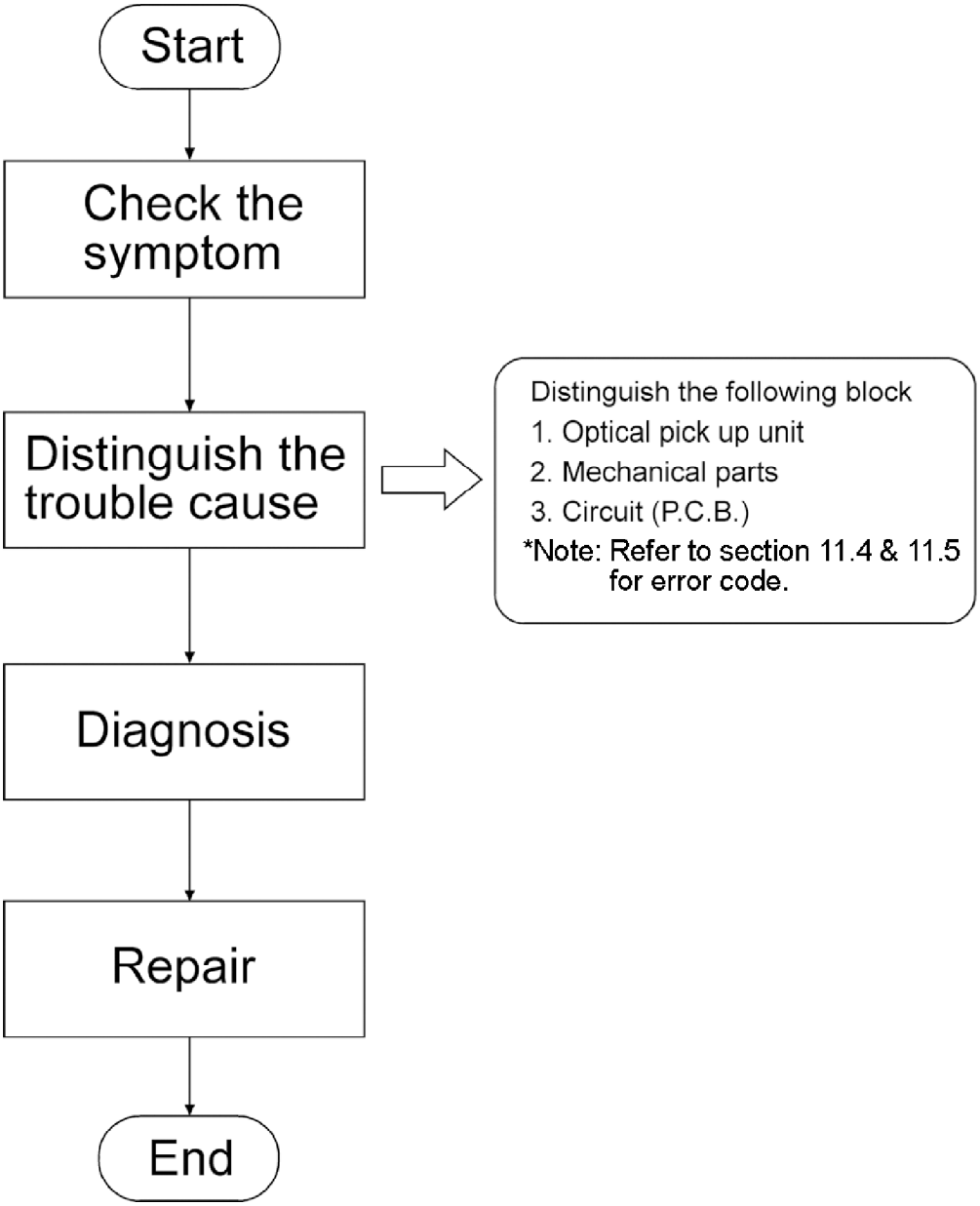
4. Limitations regarding the number of files on the media, etc.

- **Total number of audio files: Maximum 450**
- **Total number of still picture files: Maximum 999**
- **Total number of animation files: Maximum 200**
- **Total number of directories: Maximum 400**
- **Length of a file name: Maximum 108 characters (Unicode)**
- **Total number of play lists: Maximum 200**
- **Number of contents in the playlist: Maximum 900**

5. Composition of HighMAT disc

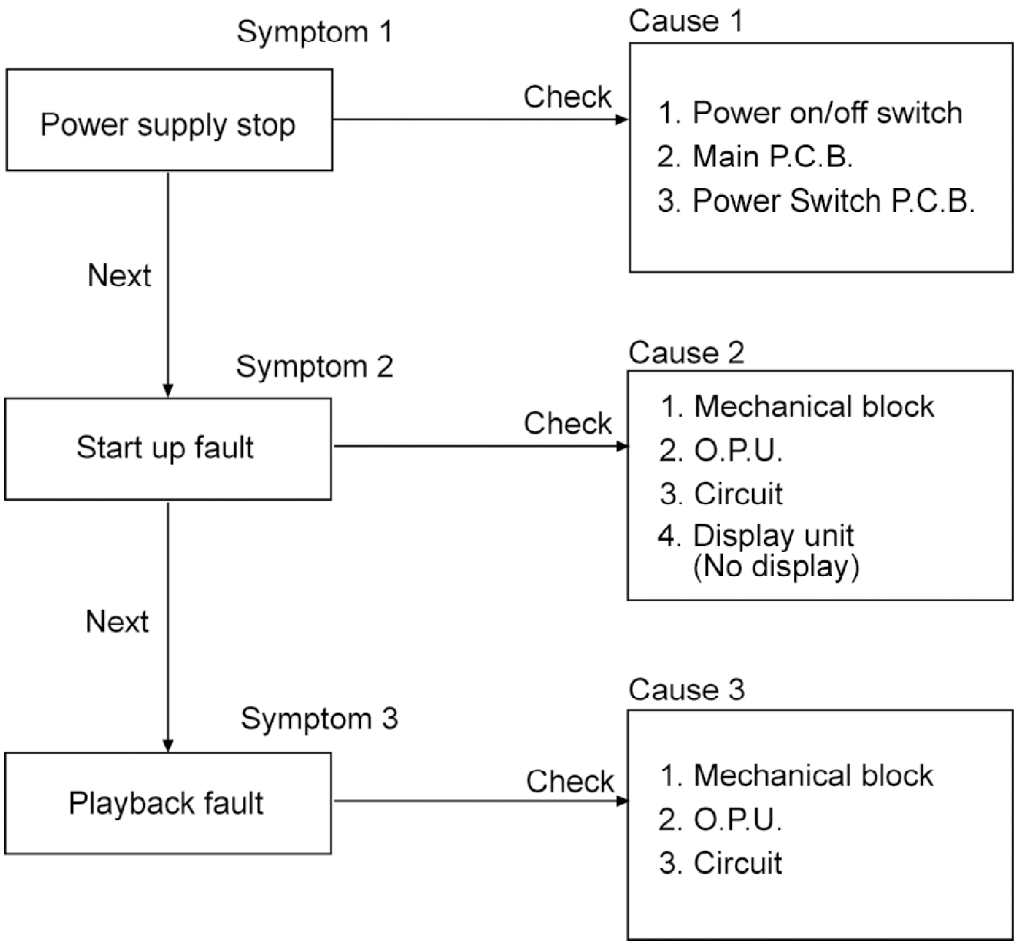
- **Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.**
- **Play list: A list in which one or more digital contents are arranged in order**
- **Group: Sub-divided group of a play list.**
- **Digital Contents: Audio, still picture, and animation data.**

16. Procedure for repairing the set



16.1. Distinguish the trouble cause

• Check flow



How to distinguish the trouble

1. View mechanical part if visual damage occurred.
Confirm the movement of mechanical parts assembly (tray ass'y, loading mechanism ass'y, etc.).

2. Diagnose if Optical Pickup Unit is faulty (refer to diagnosis of Optical Pickup Unit).

3. If mechanism and OPU are OK, it is P.C.B.

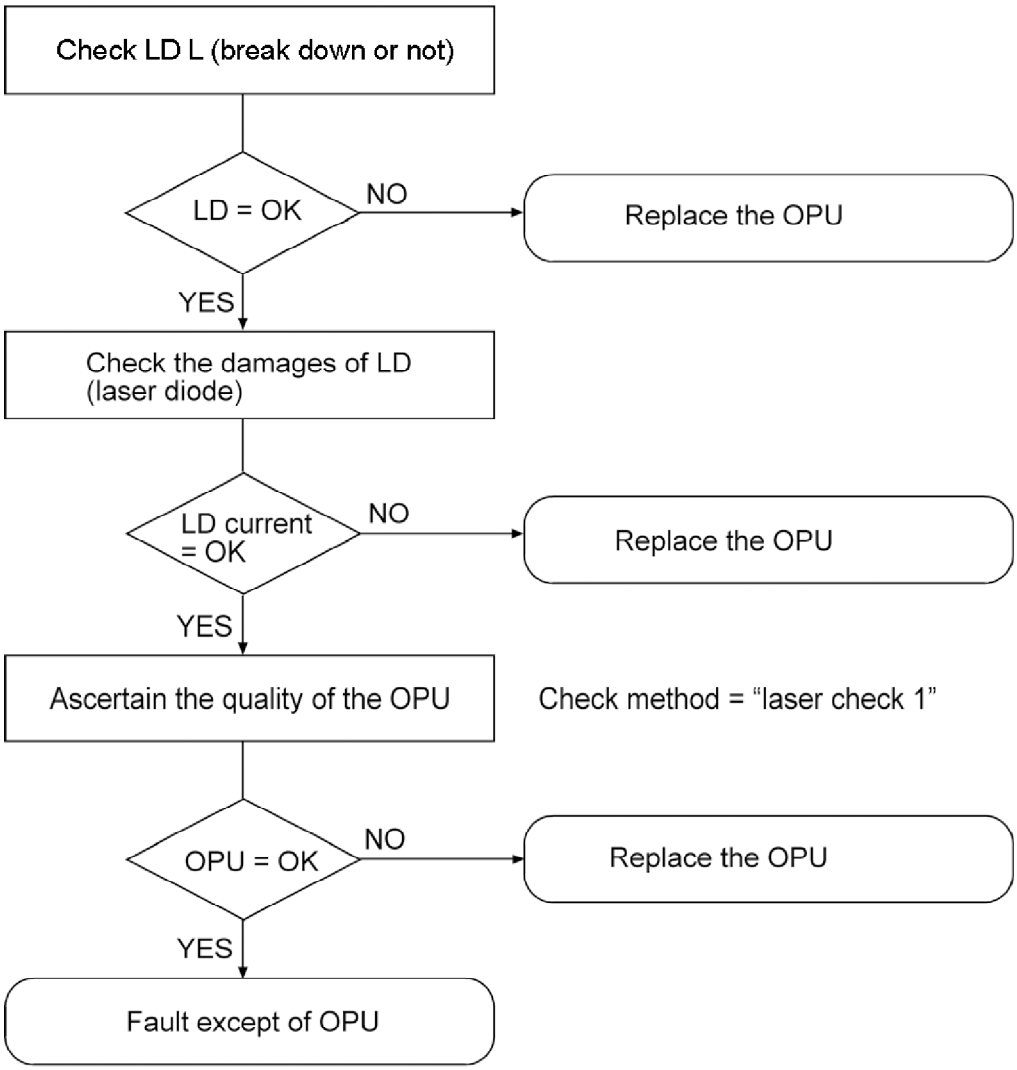
Cause 1	Possible fault
1. Power ON/OFF switch	Power switch (S912), system cable (JK300)
2. Main P.C.B.	JK300, IC3, IC4, D756

Cause 2	Possible fault
1. Mechanical block	Tray and loading mechanical block, traverse unit
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	LD drive, servo (Traverse, Focus, Tracking) Disc sensor Signal processing (FORE, SODC, DV1 etc.)

Cause 3	Possible fault
1. Mechanical block	Traverse block (Tilt adjustment)
2. O.P.U.	Refer to the diagnosis of OPU
3. Circuit	Servo (Focus, tracking) Signal processing (FORE, SODC, DV1 etc.)

16.2. Diagnosis of Optical Pick-up Unit

Diagnosis Method
Diagnose the OPU by the following procedure



Note : When LD does not emit light after replacing the OPU, check the LD drive circuit in the module P.C.B.

How to distinguish Laser destruction/damage
Confirmation 1
Remove cover of mechanism block so that you will see the lens of optical pickup.
Confirm emission of laser at the moment when power switch is turned on.
If there is no laser emission, laser diode is faulty.
Confirmation 2
While holding "Pause" and "Open/Close" button, press "Display" button on the remote controller. Unit display laser current on FL.
From the reading of display, you can judge if laser diode is damaged or not.
Reading on the right side should be less than 70. If reading is more than 70, laser is damaged.

How to confirm if Optical Pickup is OK
Confirmation 1

1. **Confirmation of jitter value with test disc. (Refer below for how to check jitter)**
2. **Lens cleaning.**
3. **Reconfirm jitter value.**
4. **Perform tile adjustment. (Refer to tilt adjustment)**
5. **Reconfirm jitter value. (To confirm jitter value, while pressing "Pause" and "Open/Close" button, press numeric "5" on remote controller.)**
   Unit display jitter value on FL.

Confirmation 2
If servo is very unstable due to optical error and you cannot confirm jitter value, clean the lens and check appearance of pick up unit (cutting coil of actuator, etc), then check circuitry.

17. Disassembly and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

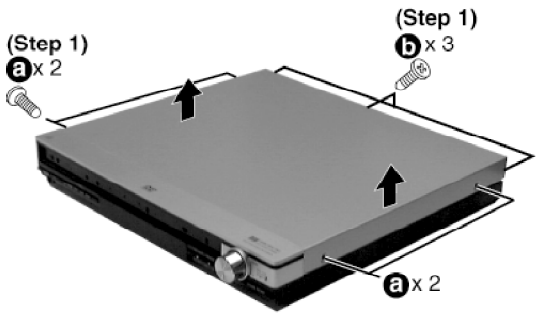
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

- **Disassembly the Top Cabinet**
- **Disassembly the Front Panel**
- **Disassembly the Tray Assembly**
- **Removal of the Tray Base Guide (L) and Tray Base Guide (R)**
- **Removal of the Rotary Tray**
- **Removal of the Open Lock Gear**
- **Removal of the Close Lock Gear**

- Removal of the Tray Motor P.C.B.and Sensor P.C.B.
- Removal of the CD Traverse Unit
- Removal of the Pulley Gear
- Removal of the Loading Motor P.C.B.
- Removal of the Drive Gear (A) & (B)
- Disassembly the Fixed Plate, Magnet and Clamper
- Removal of the Cam Gear & Support Piece
- Removal of the Slide Plate (L) & (R) and Changer Lever
- Assembly of Tray Base

17.1. Disassembling the Top Cabinet

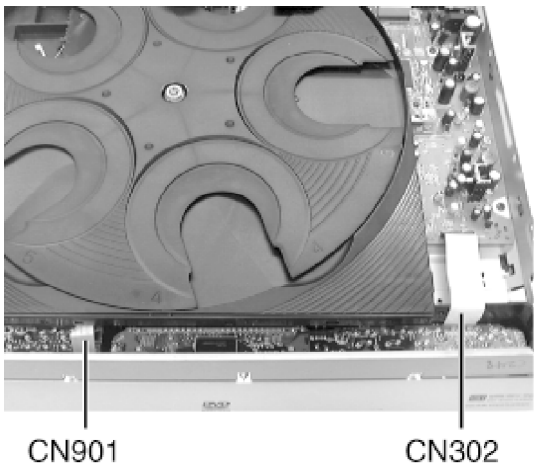
Step 1 Remove 7 screws.
Step 2 Remove the top cabinet in the direction of arrow.



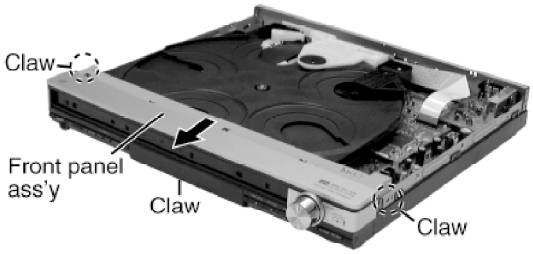
17.2. Disassembling the Front Panel

- Follow the (Step 1) - (Step 2) of Item 17.1.

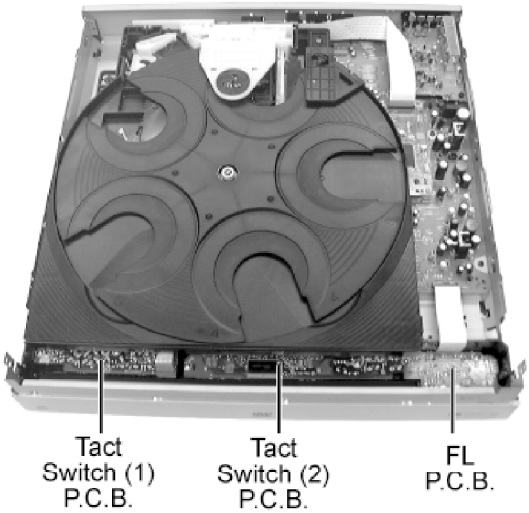
Step 1 Pull out the FFC from connectors (CN6004 & CN6001).
Step 2 Remove 1 screw.



Step 3 Pull the front panel ass'y in both direction of arrow to unlock the claws of the chassis ass'y.
Step 4 Remove the front panel ass'y in the direction of arrow.



- Checking of Tact Switch (1) P.C.B., Tact Switch (2) P.C.B. and FL P.C.B.

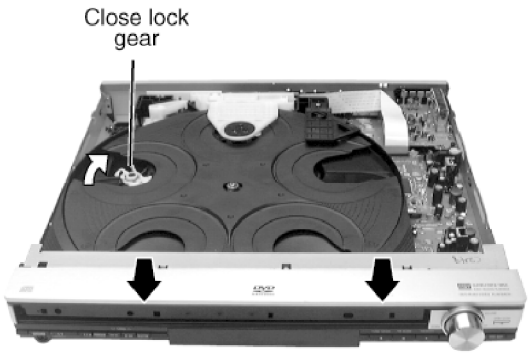


17.3. Disassembling the Tray Assembly

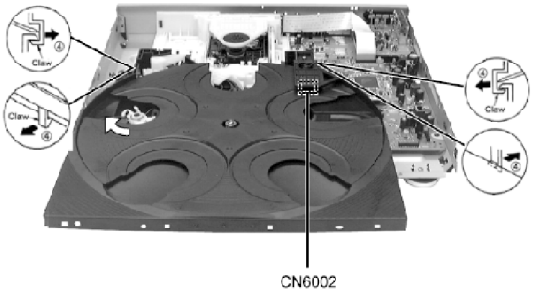
- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

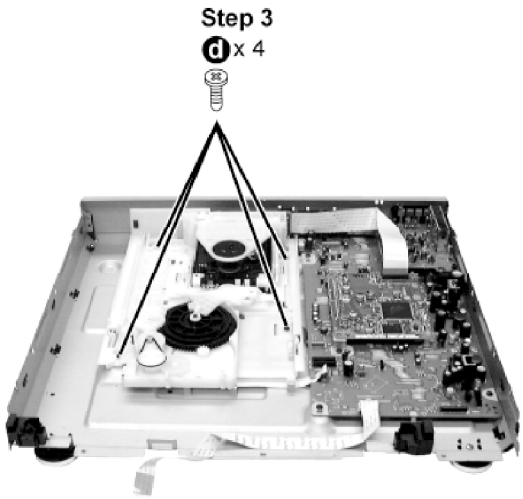
Step 1 Keep the close lock gear pressed in clockwise, move the tray assembly in the direction of the arrow.



Step 2 Hold close lock gear, push and release the 4 claws in the direction of arrow, and then remove the tray assembly.

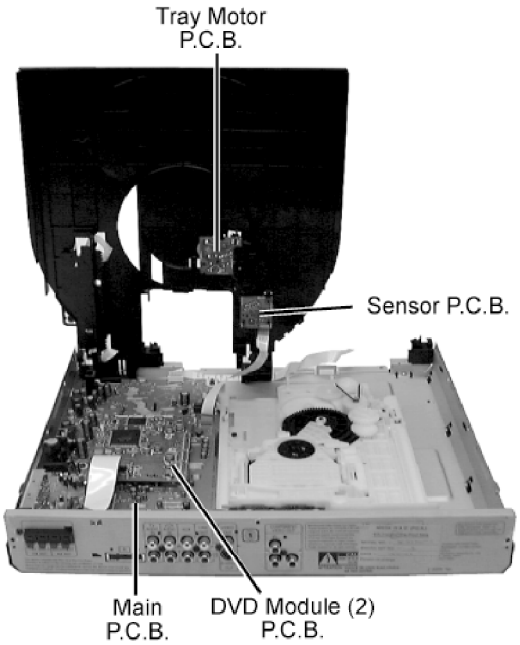


Step 3 Pull out FFC CN6002.



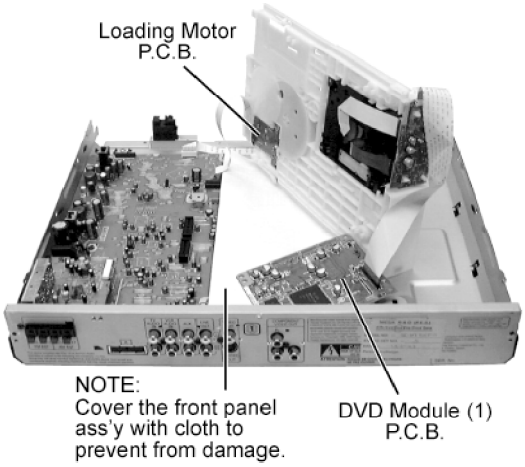
Step 4 Remove 4 screws.

- Checking of Main P.C.B., Tray Motor, DVD Module (2) P.C.B. and Sensor P.C.B.



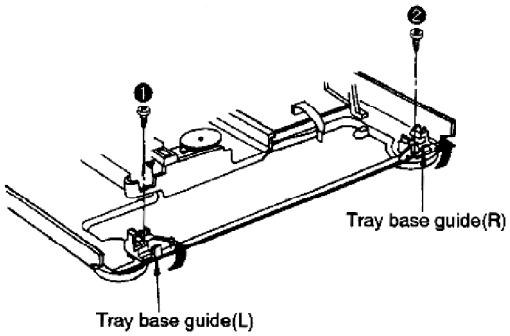
- Checking of Loading Motor P.C.B. and DVD Module (1) P.C.B.

Step 5 Upset base assembly in vertical position.



17.4. Removal of the Tray Base Guide (L) and Tray Base Guide (R)

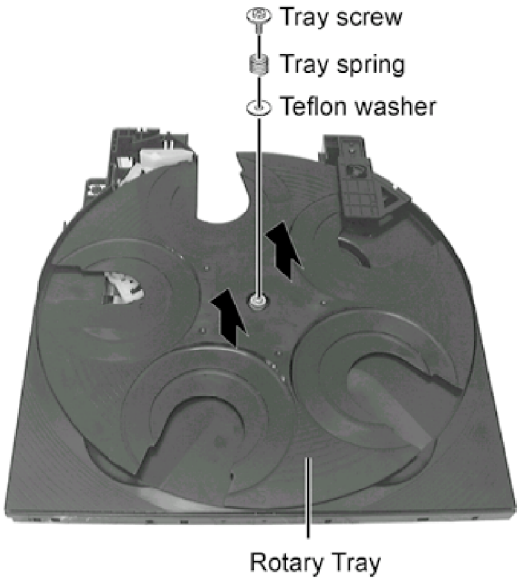
- Follow the (Step 1) - (Step 2) of Item 17.1.
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.



Step 1 Remove the 2 screws.
Step 2 Remove the tray base guide (L) and tray guide (R) in the direction of arrow.

17.5. Removal of the Rotary Tray

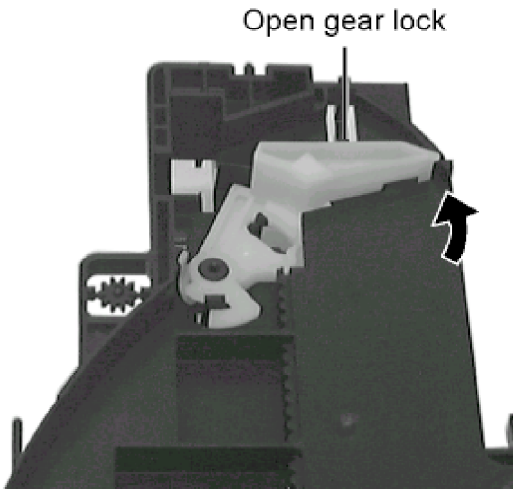
- Follow the (Step 1) - (Step 2) of Item 17.1.
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.



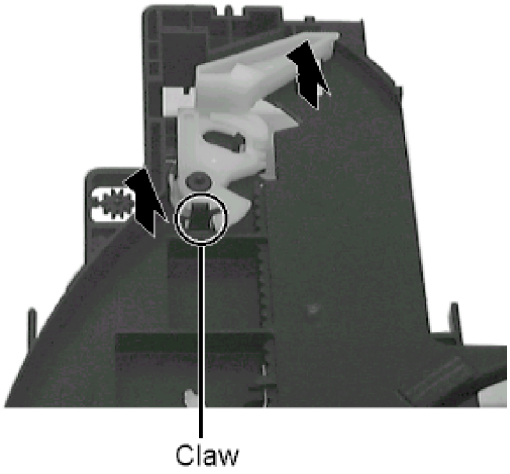
Step 1 Remove tray screw, tray spring and teflon washer.
Step 2 Remove rotary tray.

17.6. Removal of the Open Lock Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.
- Follow the (Step 1) - (Step 2) of Item 17.5.



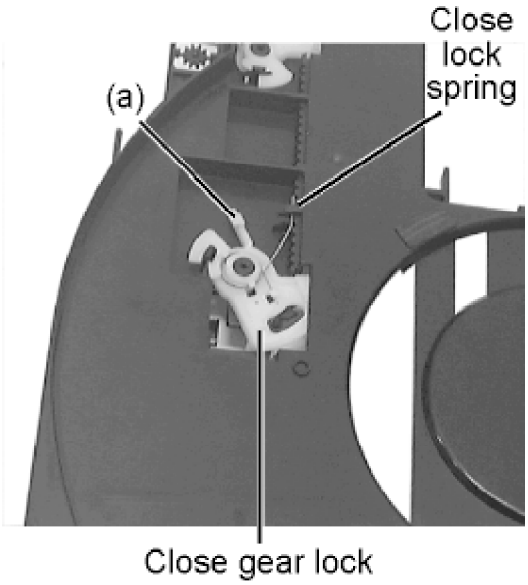
Step 1 Rotate open lock gear in the direction of arrow. (Anti-clockwise)



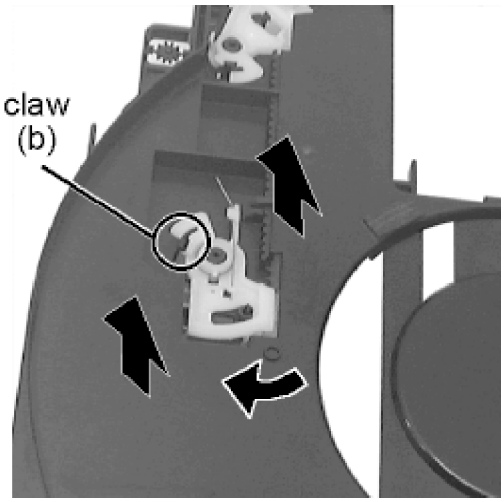
Step 2 Release claw of open lock gear, remove open lock gear in the direction of arrow .

17.7. Removal of the Close Lock Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.
- Follow the (Step 1) - (Step 2) of Item 17.5.



Step 1 Hook close lock spring to claw (a).



Step 2 Rotate close lock gear to direction of arrow, press claw (b) and pull out close lock gear.

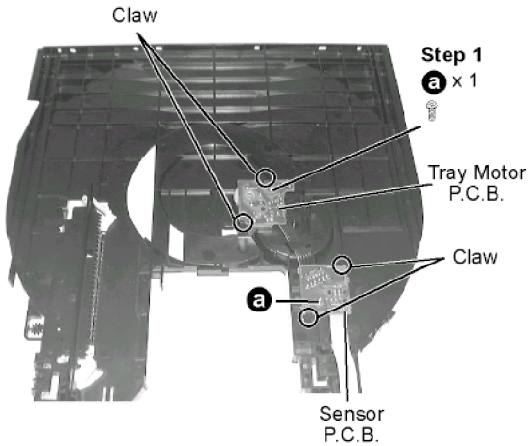
17.8. Removal of the Tray Motor P.C.B. and Sensor P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Remove 2 screws.



Step 2 Release 4 claws at Tray Motor P.C.B. and Sensor P.C.B..

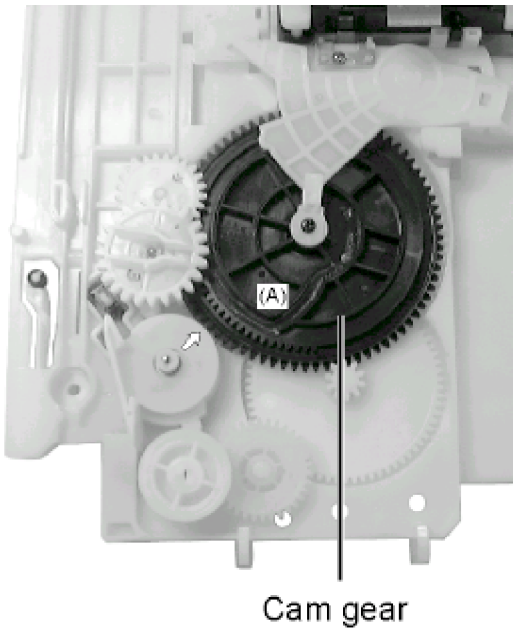
17.9. Removal of the CD Traverse Unit

- Follow the (Step 1) - (Step 2) of Item 17.1.

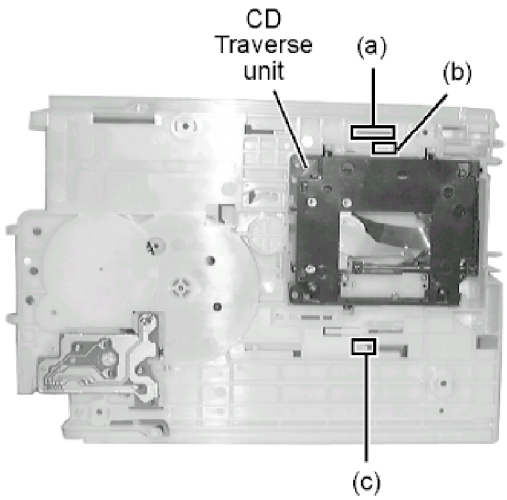
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Rotate cam gear anti-clockwise. (Align at position (B) as marking on gear with arrow)



Step 2 Flip the base mech unit in vertical position.



Step 3 Press upward (a), push backward (b) and press to left (c) to release CD traverse unit.

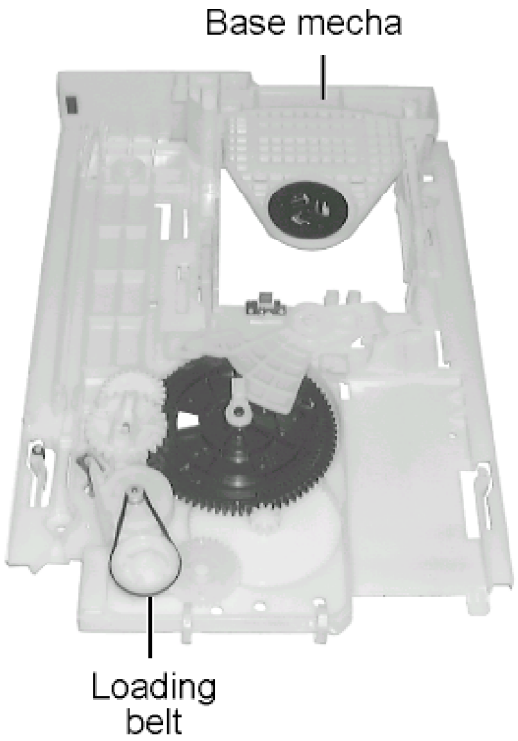
17.10. Removal of the Pulley Gear

- Follow the (Step 1) - (Step 2) of Item 17.1.

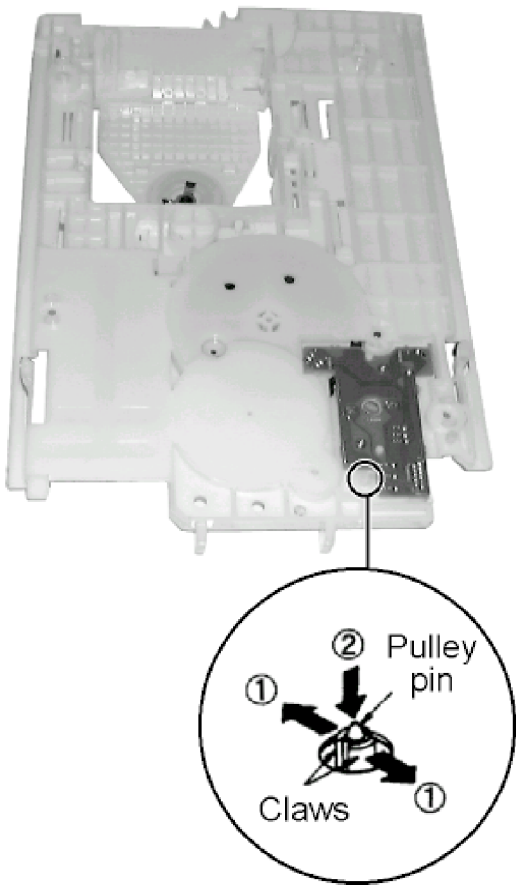
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Remove of the loading belt.



Step 2 Flip the base mecha.



Step 3 Release the 2 claws in the direction of arrow (1), and then push the pulley pin in the direction of arrow (2).

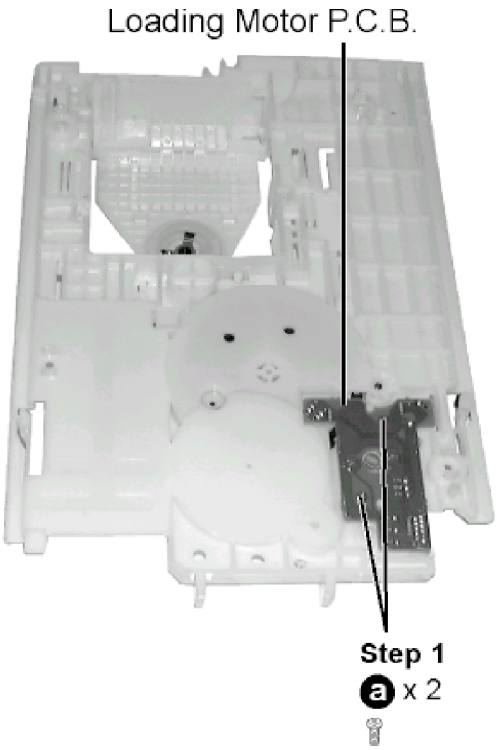
17.11. Removal of the Loading Motor P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.1.

- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Remove 2 screws.



Step 2 Remove Loading Motor P.C.B.

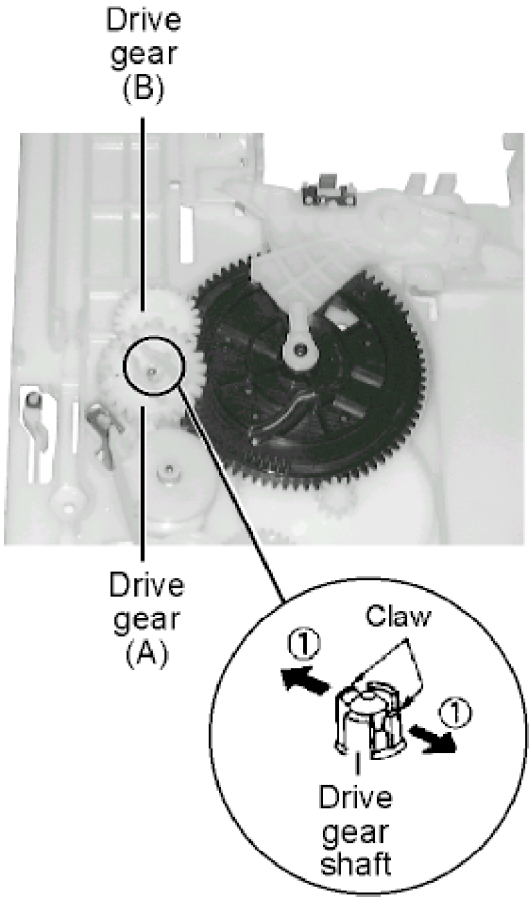
17.12. Removal of the Drive Gear (A) & (B)

- Follow the (Step 1) - (Step 2) of Item 17.1.

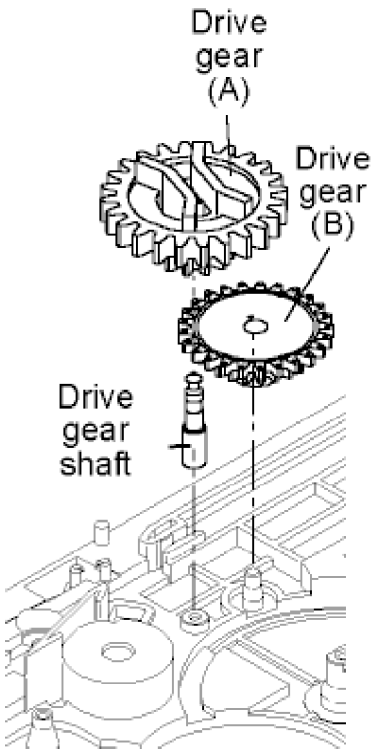
- Follow the (Step 1) - (Step 4) of Item 17.2.

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Release the claw in the direction of arrow (1), and then push drive gear shaft up.



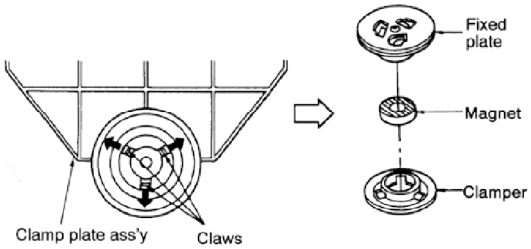
Step 2 Remove Drive Gear (A) and Drive Gear (B).



17.13. Disassembling the Fixed Plate, Magnet and Clamper

- Follow the (Step 1) - (Step 2) of Item 17.1
- Follow the (Step 1) - (Step 4) of Item 17.2.
- Follow the (Step 1) - (Step 5) of Item 17.3.

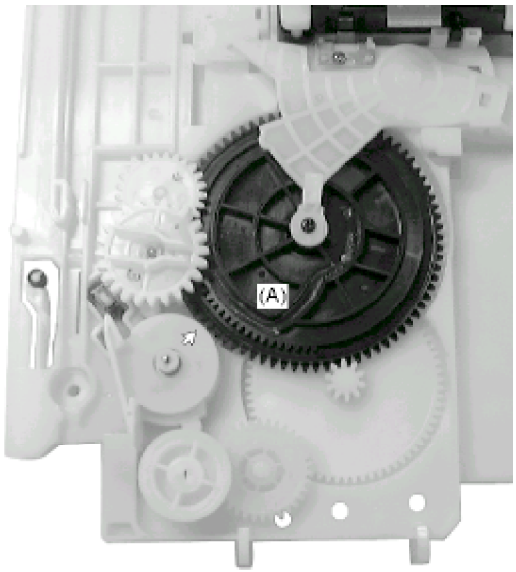
Step 1 Release 3 claws in the direction of arrow.



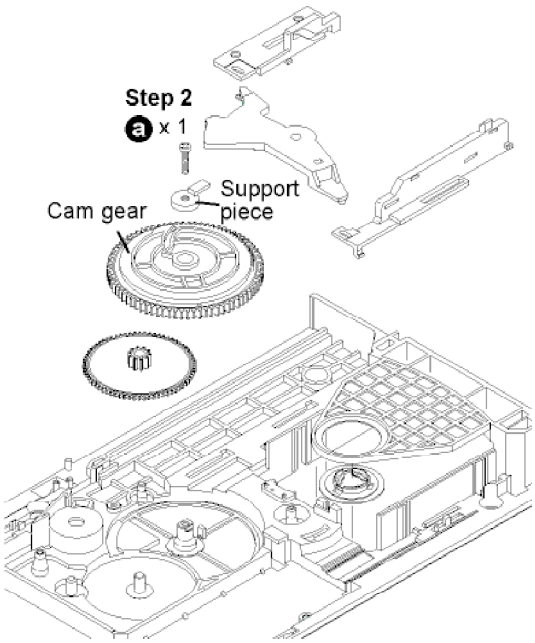
17.14. Removal of the Cam Gear & Support Piece

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Rotate (A) in cam gear anti-clockwise.



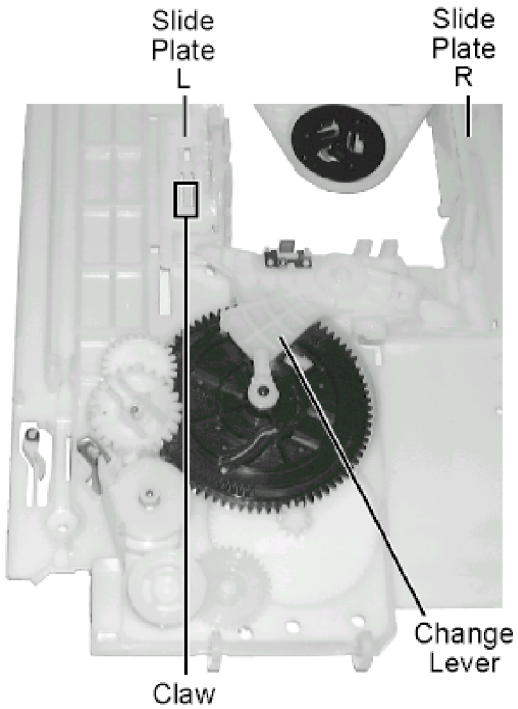
Step 2 Remove 1 screw and support piece.



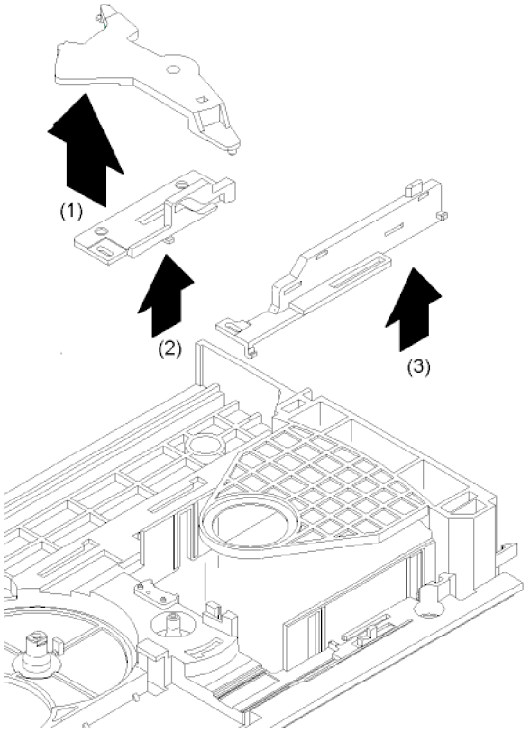
17.15. Removal of the Slide Plate (L) & (R) and Change Lever

- Follow the (Step 1) - (Step 5) of Item 17.3.

Step 1 Press the claw and push the Slide Plate (L) up.

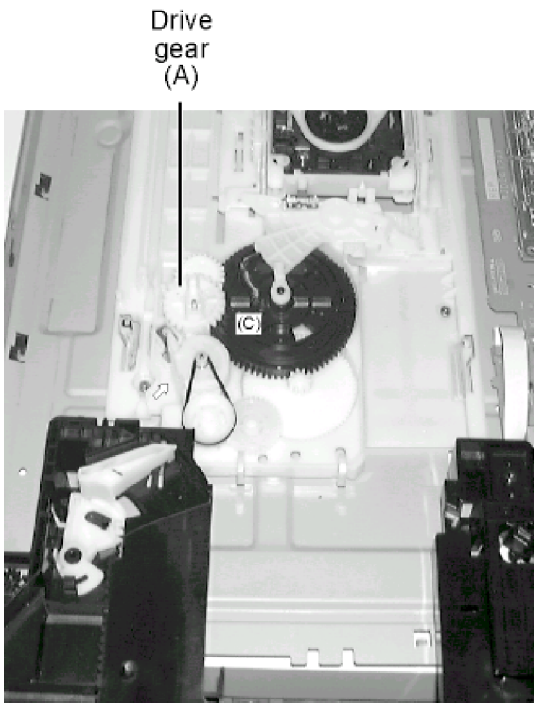


Step 2 Remove slide plate (L) & (R) and change lever as arrow shown.

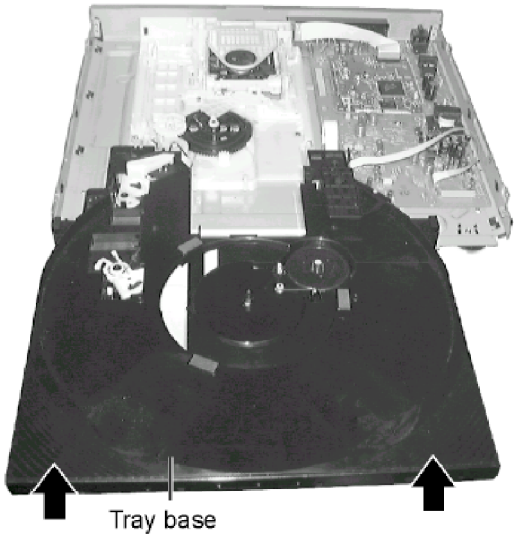


17.16. Assembly of Tray Base

Step 1 Rotate cam gear anti-clockwise. Align at position (C) as marking on gear with arrow.



Step 2 Make sure drive gear (A) at vertical position.



Step 3 Push tray base to the direction of arrow shown.

18. Adjustment Procedure

18.1. Required Tools and Equipment

18.1.1. Usage Equipment

Purpose of Use	Tools/Equipment	Model/Product Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hexagonal wrench`	Available on the market (2mm)
Others	Screw lock	RZZ0L01
	Grease	RFKXGAK152, RFKXPG641
Checking	CD test disc	PVCD-K06 and any commercially available disc
	VCD test disc	
	Recovery disc	RFKZD03R004

18.1.2. Necessity of Adjustment

18.1.2.1. Necessity of Optical Adjustment

- Before starting optical system adjustment, be sure to wear proper protection gear against static electricity.
- Optical adjustment (optical pickup tilt adjustment) is required after following parts are replaced:
  1. Optical pickup
  2. Spindle motor assembly
  3. Optical pickup peripherals such as a rail, etc.

Note:
Optical adjustment is not necessary after replacement of other parts inside traverse, however, may require when picture deterioration is detected. Optical adjustment cannot be applied to the inside of optical pickup. When a traverse unit is replaced, the adjustment is not necessary.

18.1.3. Storing and Handling Test Discs

Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

- **Do not leave the discs uncovered on the work desk or other places after use.**
- **Handle the discs carefully to prevent scratches. Put each disc in its case and place it in the standing position. Store the discs in a cool place and avoid direct sunlight or air conditioner.**
- **Accurate adjustment cannot be expected with a disc warped against a flat surface. Obtain a new test disc for optical adjustment.**
- **If a warped disc is used, adjustment would result incorrectly, and other discs could not be used.**

18.1.4. Optical Adjustment (Optical Pickup Tilt Adjustment)

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw / Tilt adjustment screw	T1 (inner track) replay / T43 (outer track) replay	DVDT-S15 or DVDT
Measuring equipment		Adjustment value	
None (LCD display of the player is used.)		Adjust that jitter value becomes minimum.	

18.1.4.1. Adjustment Procedure

1. **While the player is stopped and no disc is inserted, select the DVD function. Press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.**
2. **Check that “J_xxx_yyy_zz” is appearing on the display.**

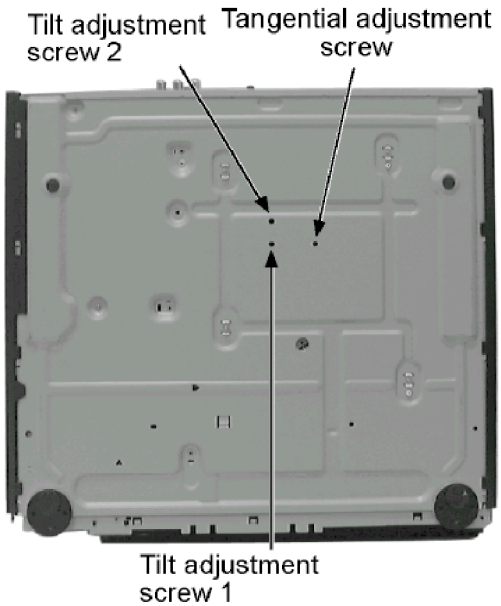
For your information:
The values, “yyy” and “zz” are not associated to jitter value. / “yyy” indicates the frequency of error occurrence. / “zz” indicates the focus drive value.

Note:
Jitter value appears on the display.

3. **Replay T01 (inner track) of the test disc.**

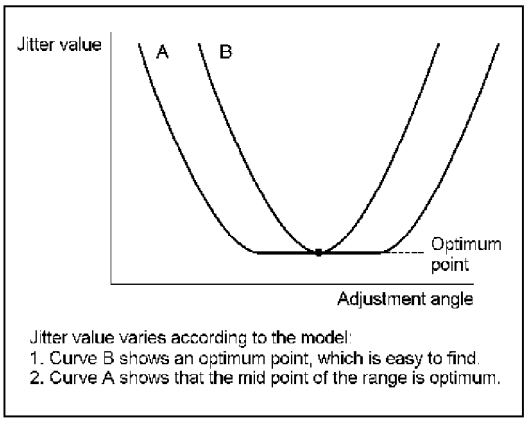
4. **Adjust till the jitter value becomes minimum, using a tangential adjustment screw. <Fig. 18-1>**
5. **Replay T43 (outer track) of the test disc.**
6. **Adjust till the jitter value becomes minimum, using a tilt adjustment screw 1. <Fig. 18-1>**
7. **Replay T43 (outer track) of the test disc.**
8. **Adjust till the jitter value becomes minimum, using a tilt adjustment screw 2.<Fig. 18-1>**
9. **Adjust till the jitter value becomes, using the tilt adjustment screws 1 and 2 alternatively.**

Fig. 18-1



18.1.4.2. Tips

1. **Apply the tangential adjustment first and then the tilt adjustment.**
2. **Repeat the adjustment a couple of times to find the optimum point.**
3. **Complete with the tilt adjustment.**


Jitter value
A
B
Optimum point
Adjustment angle
Jitter value varies according to the model
1. Curve B shows an optimum point, which is easy to find.
2. Curve A shows that the mid point of the range is optimum.

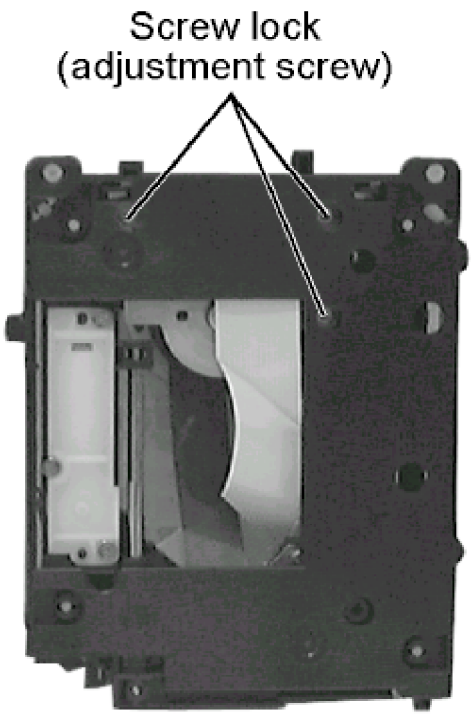
18.1.4.3. Check After Adjustment

Replay test discs or other commercial discs in order to confirm that no picture deterioration or sound skipping is detected in the inner, middle, and outer tracks. After this, fasten each adjustment screw securely using a screw lock.

18.1.4.4. Procedure for Screw Lock

1. **After adjustment, remove the top cover, clamper base, disc tray and then traverse unit.**
2. **Place the traverse unit upside down, and fasten the adjustment screws with a screw lock. <Fig. 18.2>**
3. **After fastening the screws, assemble in order of the traverse unit, disc tray, clamper base, and then top cover.**

Fig. 18-2



18.2. Tuner Section

18.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig.1.

2. Set the unit to AM mode.

3. Apply signal as shown in Fig. 1 from AM-SG.

4. Adjust Z102 so that the output frequency is maximized in Fig. 2.

Fig.1

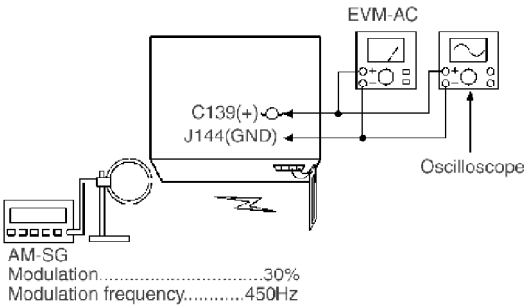
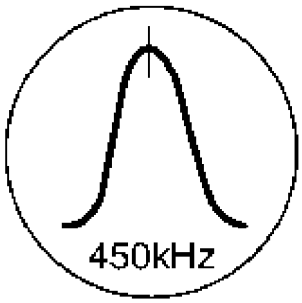


Fig.2



18.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 3.

2. Set the unit to AM mode.

3. Set AM-SG to 520kHz.

4. Receive 520kHz in the unit.

5. Adjust Z101 (OSC) so that the EVM-AC is maximized.

6. Set AM-SG to 600Hz.

7. Receive 600Hz in the unit.

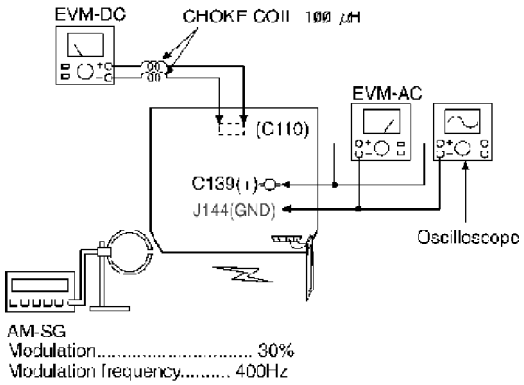
8. Adjust Z101 (ANT) so that the EVM-SG is maximized.

9. Set AM-SG to 520kHz.

10. Receive 520kHz in the unit.

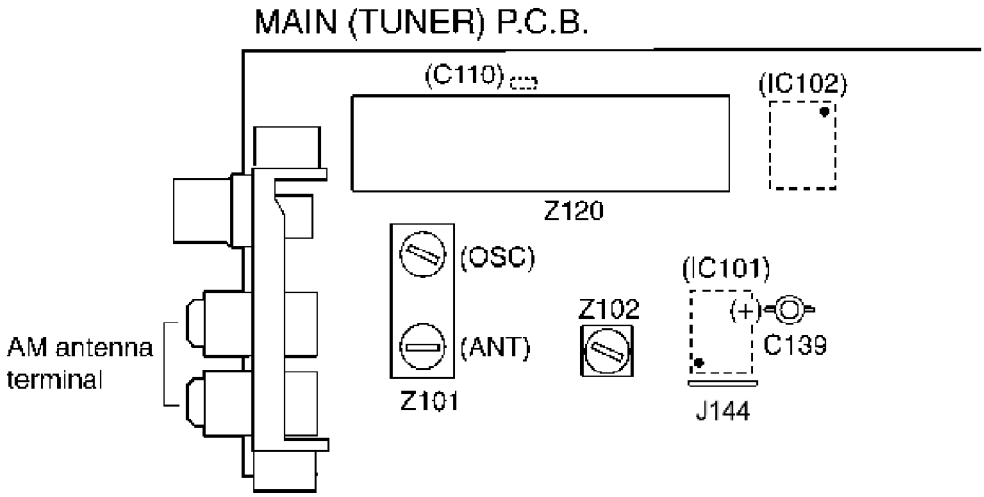
11. Adjust Z101 (OSC) so that the EVM-DC value is with 1.1±0.5V.

Fig.3



18.3. Alignment Points

18.3.1. Adjustment Point



19. Block Diagram

20. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S900

: Ex Disc switch

S901

: Disc Skip switch

S902

: Disc Open/Close switch

S903

: Play switch

S904

: Pause switch

S905

: Stop switch

S906

: SEL switch

S907

: Forward switch

S908

: Rev switch

S909

: Program switch

S910

: CSM switch

S912

: Power switch

S9001

: Loading switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark	**: Playback**	**<< >>**	**Rec**	**< >**	**: FM**
(( ))	**: CD**	**( )**	**: AM**	**[ ]**	**: AUX**

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified

parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

21. Printed Circuit Board

22. Wiring Connection Diagram

23. Parts Location and Replacement Parts List

Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  Parts without these indications can be used for all areas.
- **Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".**
- **Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific**

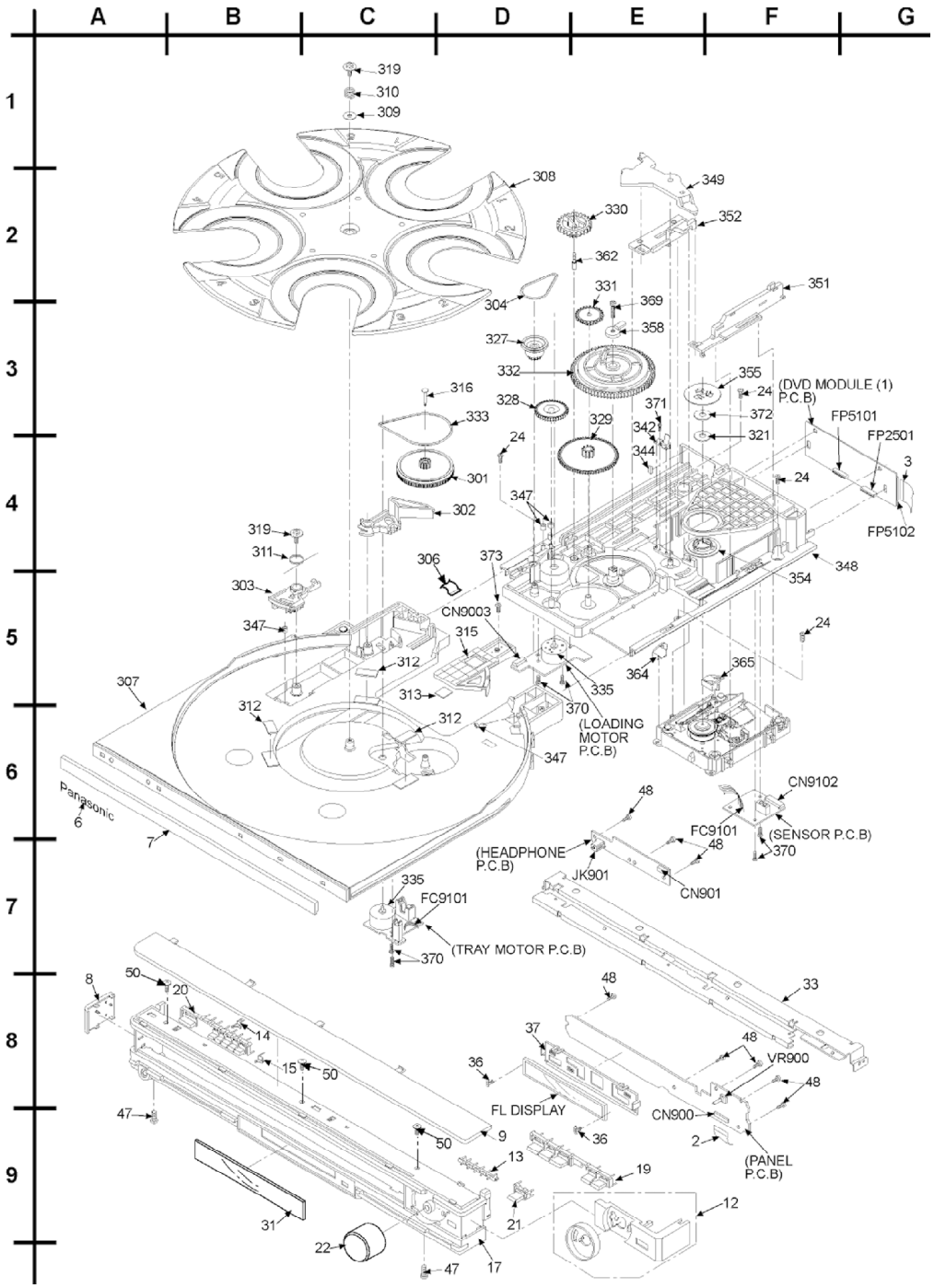
period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **The “(SF)” mark denotes the standard part.**
- **Reference for O/I book languages are as follows:**

Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedish**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifie Chinese**

23.1. Loading Mechanism, Traverse Unit & Cabinet

23.1.1. Loading Mechanism, Traverse Unit & Cabinet Parts Location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24
(DVD MODULE (1) P.C.B)
316
328
371
372
FP5101
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FP2501
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302
FP5102
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311
306
373
348
303
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CN9003
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313
370
(LOADING MOTOR P.C.B)
312
312
347
CN9102
48
Panasonic
6
7
FC9101
(SENSOR P.C.B)
48
370
(HEADPHONE P.C.B)
JK901
CN901
335
FC9101
(TRAY MOTOR P.C.B)
370
8
50
20
48
33
37
48
14
VR900
36
15
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47
FL DISPLAY
CN900
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(PANEL P.C.B)
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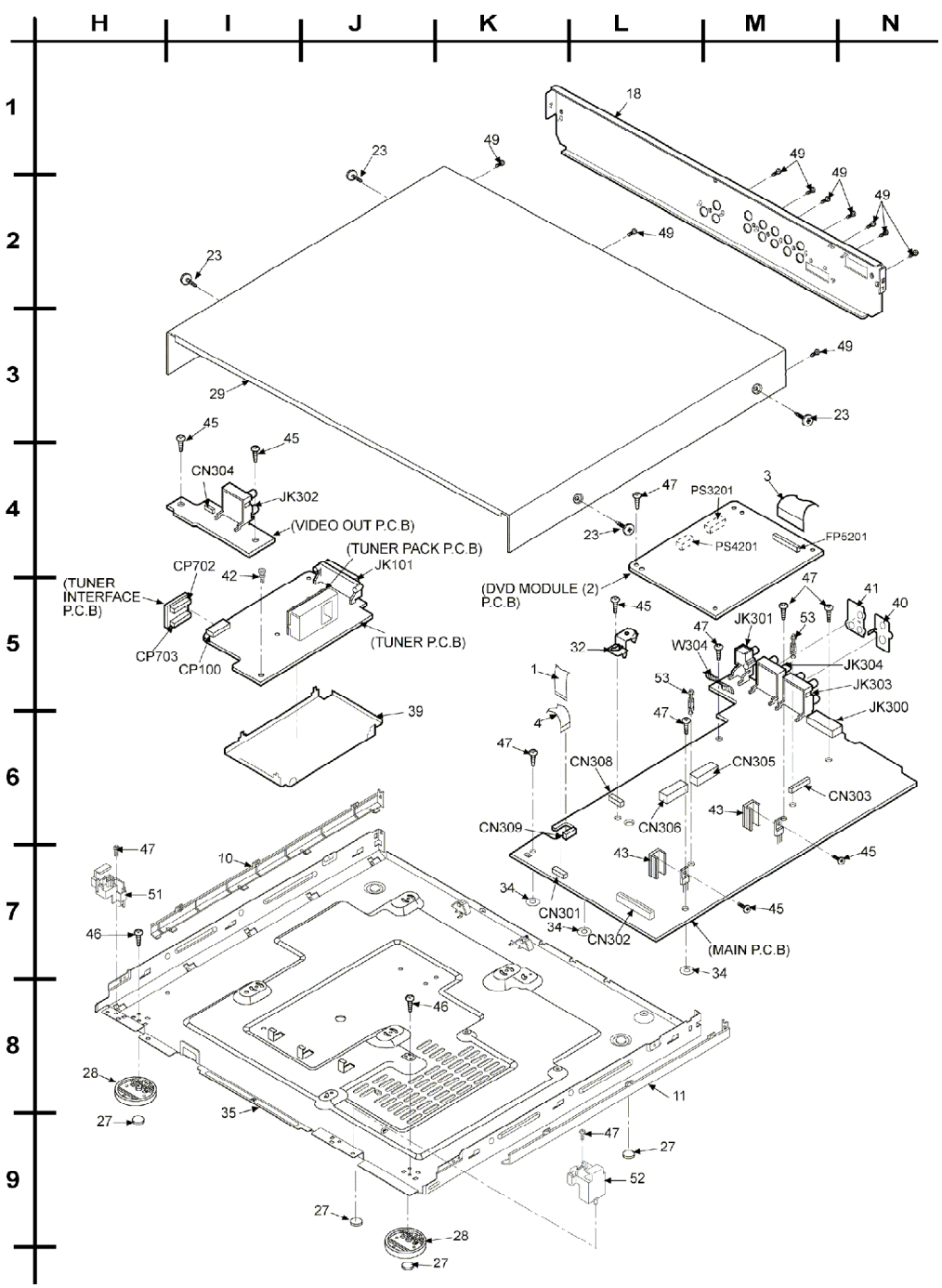
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CN304
JK302
(VIDEO OUT P.C.B)
(TUNER PACK P.C.B)
JK101
CP702
42
(TUNER INTERFACE P.C.B)
CP703
CP100
(TUNER P.C.B)
39
47
PS3201
3
PS4201
FP5201
(DVD MODULE (2) P.C.B)
41
40
JK301
53
W304
JK304
JK303
JK300
32
1
4
CN308
CN305
CN303
CN309
CN306
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CN301
CN302
(MAIN P.C.B)
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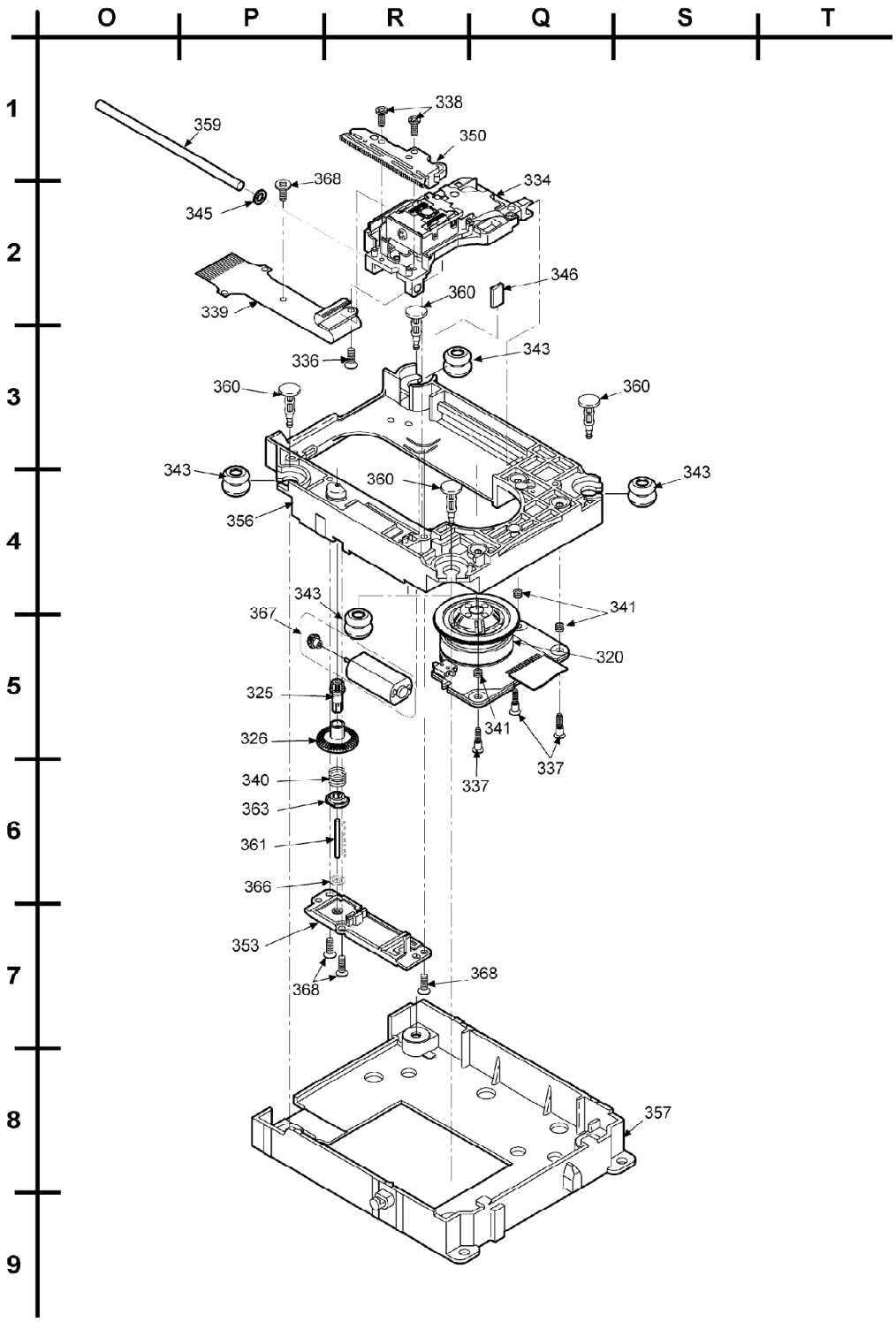
52



23.1.2. Traverse and Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0224-1	11P FFC (MAIN-HP)	[M]
2	REEX0225	22P FFC (MAIN-FL)	[M]
3	REEX0284	50P FFC (B/E-DRIVE)	[M]
4	REEX0285	11P FFC (MECHA-MAIN)	[M]
6	RGBX0011-S	PANA BADGE	[M]
7	RGK1578-S	TRAY ORNAMENT	[M]
8	RGK1582-S	SIDE ORNAMENT L	[M]
9	RGK1579-S	TOP ORNAMENT	[M]
10	RGKX0192-K	SIDE PLATE L	[M]
11	RGKX0193-K	SIDE PLATE R	[M]
12	RGKX0213-S	VOLUME KNOB ORN. UNI	[M]
13	RGLX0066-Q	5 DISC LIGHTING CHIP	[M]
14	RGLX0067-Q	POWER LIGHT CHIP	[M]
15	RGLX0068-Q	BUTTON LIGHTING CHIP	[M]
17	RGPX0101-K1	FRONT PANEL	[M]
18	RGRX0026A-A	REAR PANEL	[M]
19	RGUX0518-K	OPERATION BUTTON	[M]
20	RGUX0519-K	POWER BUTTON	[M]
21	RGUX0520-S	OPEN/CLOSE BUTTON	[M]
22	RGWX0077-S	VOLUME KNOB	[M]
23	RHD30007-S	SCREW	[M]
24	RHD30107	SCREW	[M]
27	RKA0145-K	CUSHION	[M]
28	RKAX0009-S	FOOT BASE ASS'Y	[M]
29	RKMX0090-S	TOP CABINET	[M]
31	RKWX0200-Q	FL WINDOW	[M]
32	RMAX0057	BE ANGLE B	[M]
33	RMAX0060	PANEL ANGLE	[M]
34	RMFX0022	SPACER	[M]
35	RMKX0074	BOTTOM CHASSIS	[M]
36	RMN0195-1	FL-SUPPORT	[M]
37	RMNX0096-1	FL HOLDER	[M]
39	RSCX0084	TUNER SHIELD PLATE	[M]
40	RSCX0086	V JACK SHIELD PLATE	[M]
41	RSCX0087	RGB SHIELD PLATE	[M]
42	SHR415	PLASTIC RIVET	[M]
43	TUC25628	HEAT SINK	[M]
45	XTB3+10JFZ	SCREW	[M]
46	XTB3+6J	SCREW	[M]
47	XTB3+8JFZ	SCREW	[M]
48	XTBS26+10J	SCREW	[M]
49	XTBS3+8JFZ1	SCREW	[M]
50	XTS3+6FFZ	SCREW	[M]
51	RMN0730	TRAY GUIDE L	[M]
52	RMN0731	TRAY GUIDE R	[M]
53	RMR1440-X	PCB SUPPORT	[M]
		TRAVERSE DECK	
301	RDG0567	PULSE GEAR	[M]
302	RDG0568	OPEN LOCK GEAR	[M]
303	RDG0569	CLOSE LOCK GEAR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
304	RDV0073	TRAY BELT	[M]
306	REZ1484	11P FFC (TRAY-MAIN)	[M]
307	RGQ0358-K	TRAYBASE	[M]
308	RGQ0359-K	ROTARY TRAY	[M]
309	RHW81001-1	WASHER	[M]
310	RMB0365	TRAY SPRING	[M]
311	RME0384	CLOSE LOCK GEAR SPR.	[M]
312	RMF0182	TRAY FELT	[M]
313	RMF0324	BLOCK SHEET	[M]
315	RMN0256	BLOCK BASE	[M]
316	RMS0123-1	FIXED PIN B	[M]
319	XTWS3+10S	SCREW	[M]
320	BML3E4CRX	SPINDLE MOTOR	[M]
321	JSM0048	MAGNET	[M]
325	RDG0557	PINON SHAFT	[M]
326	RDG0558	BEVEL RING	[M]
327	RDG0562	PULLEY GEAR	[M]
328	RDG0563	RELAY GEAR A	[M]
329	RDG0564	RELAY GEAR B	[M]
330	RDG0565	DRIVE GEAR A	[M]
331	RDG0566	DRIVE GEAR B	[M]
332	RDG0570	CAM GEAR	[M]
333	RDV0072	LOADING BELT	[M]
334	RD-DDP013AS	OPU UNIT	[M]
335	REM0112	LOADING MOTOR ASS'Y	[M]
336	RHD14095	FPC SCREW	[M]
337	RHD17042	TILT ADJUST SCREW	[M]
338	RHD17046	RACK SCREW	[M]
339	RJB2621A	RELAY FPC	[M]
340	RMB0713-1	THRUST SPRING	[M]
341	RMB0714	TILT SPRING	[M]
342	RMC0387	SUPPORT SPRING	[M]
343	RMG0598-A	FLOATING RUBBER	[M]
344	RMG0615-K	CUSHION SHEET	[M]
345	RMG0617-H	CUSHION RUBBER A	[M]
346	RMG0618-H	CUSHION RUBBER B	[M]
347	RMG0620-K	CUSHION RUBBER	[M]
348	RMK0555	MECHA BASE	[M]
349	RML0646	CHANGE LEVER	[M]
350	RMM0252	OPU DRIVE RACK	[M]
351	RMM0254	SLIDE PLATE R	[M]
352	RMM0255	SLIDE PLATE L	[M]
353	RMQ1112	MOTOR COVER	[M]
354	RMR1446-X	CLAMPER	[M]
355	RMR1447-X	MAGNET HOLDER	[M]
356	RMR1466-K	TRAVERSE BASE	[M]
357	RMR1467-K	MIDDLE CHASSIS	[M]
358	RMR1507-X	SUPPORT PIECE	[M]
359	RMS0788	GUIDE SHAFT	[M]
360	RMS0789	FIXED PIN	[M]
361	RMS0798	GEAR SHAFT	[M]
362	RMS0802	DRIVE GEAR SHAFT	[M]
363	RMX0233	THRUST WASHER	[M]
364	RMX0241	TRAY SUPPORT R	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
365	RMX0242	TRAY SUPPORT L	[M]
366	RMX0247	WASHER	[M]
367	RXQ0946	TRV MOTOR SUB ASS'Y	[M]
368	VHD1224	ADJ SPRING HOLDER SC	[M]
369	XTN26+14JFZ	SUPPORT PIECE SCREW	[M]
370	XTN26+8G	ADDITIONAL SCREWS	[M]
371	XTV2+6G	PCB SCREW	[M]
372	XWG6FFY	WASHER	[M]
373	XTB3+10J	SCREW	[M]

23.2. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3451A-N	DVD MODULE (1) P.C.B. (SIDE: A)	[M](RTL)
	REP3451A-N	DVD MODULE (1) P.C.B. (SIDE: B)	[M](RTL)
	REPX0386A	DVD MODULE (2) P.C.B. (SIDE: A)	[M](RTL)
	REPX0386A	DVD MODULE (2) P.C.B.(SIDE: B)	[M](RTL)
	REPX0334G	MAIN/TUNER P.C.B.	[M](RTL)
	REPX0373A	TUNER P.C.B.	[M](RTL)
	REP1999B	TUNER PACK P.C.B.	[M](RTL)
	REPX0334G	TUNER INTERFACE P.C.B.	[M](RTL)
	REPX0333E	PANEL P.C.B.	[M](RTL)
	REPX0334G	VIDEO OUT P.C.B.	[M](RTL)
	REPX0333E	HEADPHONE P.C.B.	[M](RTL)
	REP3465A	LOADING MOTOR P.C B.	[M](RTL)
	REP3466A	TRAY MOTOR P.C.B.	[M](RTL)
	REP3466A	SENSOR P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC2	C0CBADG00020	IC REGULATOR	[M]
IC3	C0DBAMH00009	IC POWER SUPPLY	[M]
IC4	C0DBAMH00009	IC POWER SUPPLY	[M]
IC5	C0DBZHE00011	1C FOR POWER SUPPLY	[M]
IC6	C0CBADG00020	IC REGULATOR	[M]
IC7	C0CBADG00020	IC REGULATOR	[M]
IC8	C0DBEZG00011	IC REGULATOR	[M]
IC50	C9ZB00000377	IC VIDEO DRIVER	[M]
IC51	C0GAG0000007	IC CHANGER MOTOR DR	[M]
IC52	C0GAG0000007	IC CHANGER MOTOR DR	[M]
IC53	C1AB00001466	IC BUFFER	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC301	C0JZAS000004	IC ANALOG SWITCH	[M]
IC302	KIA4558FEL	IC DUAL OP-AMP	[M]
IC303	KIA4558FEL	IC DUAL OP-AMP	[M]
IC304	C0JBAR000326	IC MULTIPLEXOR	[M]
IC305	M5228FPE1	IC QUAD OP AMP	[M]
IC306	KIA4558FEL	IC DUAL OP-AMP	[M]
IC307	C1BB00000782	IC 6 CHANNEL VOLUME	[M]
IC308	C0AABB000055	IC OP AMP	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC309	M5228FPE1	IC QUAD OP AMP	[M]
IC700	C2HBZC000013	IC DSP	[M]
IC701	C1BB00000389	IC BLT IC	[M]
IC800	C2CBHF000275	IC MICRO CONTROLLER	[M]
IC900	C0HBB0000035	IC FL DRIVER	[M]
IC2501	C0GBF0000004	IC MOTOR DRIVER	[M]
IC2521	C0GBG0000033	IC MOTOR DRIVER	[M]
IC3001	MN2DS0002AP1	IC AV DECODER	[M]
IC3051	C3ABPG000063	IC 64 SDRAM	[M]
IC3061	C3ABPG000063	IC 64 SDRAM	[M]
IC4211	C0FBBK000036	IC AUDIO DAC	[M]
IC6201	C0EBE0000070	IC RESET	[M]
IC6251	C0CBCBE00003	IC REGULATOR	[M]
IC6261	C0JBAA000001	IC INVERTER	[M]
IC6262	C0JBAA000001	IC INVERTER	[M]
IC6301	RFKFMH70T320	IC FLASH ROM	[SPC]
IC6311	C0JBAZ001251	IC LATCH	[M]
IC6312	C0JBAZ001251	IC LATCH	[M]
IC6561	C1DB00000980	IC CLOCK GENERATOR	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	KRA110STA	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q3	KTA1046	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q4	KTC3875GRTA	TRANSISTOR	[M]
Q5	B1ADCF000001	TRANSISTOR	[M]
Q6	KRA102STA	TRANSISTOR	[M]
Q15	KRC107STA	TRANSISTOR	[M]
Q16	KRC107STA	TRANSISTOR	[M]
Q17	KRC107STA	TRANSISTOR	[M]
Q18	KRC107STA	TRANSISTOR	[M]
Q19	KRC107STA	TRANSISTOR	[M]
Q52	KRC107STA	TRANSISTOR	[M]
Q53	KRC102STA	TRANSISTOR	[M]
Q54	KRC102STA	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M]
Q300	B1GFGCAA0001	TRANSISTOR	[M]
Q301	KRA110STA	TRANSISTOR	[M]
Q302	KRA110STA	TRANSISTOR	[M]
Q304	KRA110STA	TRANSISTOR	[M]
Q305	KRA110STA	TRANSISTOR	[M]
Q307	B1GFGCAA0001	TRANSISTOR	[M]
Q308	B1GFGCAA0001	TRANSISTOR	[M]
Q310	B1GFGCAA0001	TRANSISTOR	[M]
Q312	B1GFGCAA0001	TRANSISTOR	[M]
Q314	KRA110STA	TRANSISTOR	[M]
Q315	KRA110STA	TRANSISTOR	[M]
Q317	KRA110STA	TRANSISTOR	[M]
Q320	KTD1304TA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q321	KTC3875GRTA	TRANSISTOR	[M]
Q750	KTA12710YTA	TRANSISTOR	[M]
Q751	B1ADCF000001	TRANSISTOR	[M]
Q752	B1BCCD000016	TRANSISTOR	[M]
Q753	KTC3875GRTA	TRANSISTOR	[M]
Q754	KTA1046	TRANSISTOR	[M]
Q755	2SD21370PA	TRANSISTOR	[M]
Q756	KRA110STA	TRANSISTOR	[M]
Q757	B1AAKD000009	TRANSISTOR	[M]
Q758	KTC3205YTA	TRANSISTOR	[M]
Q800	KRC103STA	TRANSISTOR	[M]
Q801	KRC111STA	TRANSISTOR	[M]
Q802	KRC103STA	TRANSISTOR	[M]
Q900	KRC107STA	TRANSISTOR	[M]
Q901	KRC107STA	TRANSISTOR	[M]
Q902	KRC107STA	TRANSISTOR	[M]
Q903	KRC107STA	TRANSISTOR	[M]
Q904	KRC107STA	TRANSISTOR	[M]
Q910	KRC107STA	TRANSISTOR	[M]
Q5111	B1ADPC000004	TRANSISTOR	[M]
Q5115	B1ADPC000004	TRANSISTOR	[M]
Q5211	UNR212100L	TRANSISTOR	[M]
Q5221	2SD1819A0L	TRANSISTOR	[M]
Q5225	2SD1819A0L	TRANSISTOR	[M]
Q9001	B3NAA0000068	PHOTO INTERRUPTER	[M]
Q9101	B3NAA0000078	PHOTO INTERRUPTER	[M]
Q9102	B3NAA0000011	PHOTO INTERRUPTER	[M]
Q9103	B3NAB0000027	PHOTO INTERRUPTER	[M]
		DIODES	
D1	SVC211SPA-AL	DIODE	[M]
D2	B0BC9R000008	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	B0ACCK000005	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D6	B0JCPC000004	DIODE	[M]
D7	B0JCPC000004	DIODE	[M]
D8	B0BC7R500001	DIODE	[M]
D9	B0BC7R500001	DIODE	[M]
D10	B0ECKM000016	DIODE	[M]
D20	B0ACCK000005	DIODE	[M]
D21	B0ACCK000005	DIODE	[M]
D51	B0ECKM000016	DIODE	[M]
D52	B0ECKM000016	DIODE	[M]
D53	B0ECKM000016	DIODE	[M]
D54	B0ECKM000016	DIODE	[M]
D55	B0ECKM000016	DIODE	[M]
D56	B0ECKM000016	DIODE	[M]
D101	B0BC5R000009	DIODE	[M]
D201	B0ACCK000005	DIODE	[M]
D301	B0BC5R000009	DIODE	[M]
D302	B0BC5R000009	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D700	B0ACCK000005	DIODE	[M]
D701	B0ACCK000005	DIODE	[M]
D750	B0FBAM000010	DIODE	[M]
D751	B0ECKM000016	DIODE	[M]
D752	B0ECKM000016	DIODE	[M]
D753	UDZSTE1712B	DIODE	[M]
D756	RL1N4003N02	DIODE	[M]
D757	RL1N4003N02	DIODE	[M]
D758	RL1N4003N02	DIODE	[M]
D759	RL1N4003N02	DIODE	[M]
D760	RL1N4003N02	DIODE	[M]
D761	RL1N4003N02	DIODE	[M]
D762	UDZSTE1730B	DIODE	[M]
D763	UDZSTE1710B	DIODE	[M]
D764	B0BC7R500001	DIODE	[M]
D765	B0BC5R600003	DIODE	[M]
D767	B0ECKM000016	DIODE	[M]
D769	B0ECKM000016	DIODE	[M]
D770	B0ACCK000005	DIODE	[M]
D771	UDZSTE1715B	DIODE	[M]
D801	1SS380TE-17	DIODE	[M]
D802	1SS380TE-17	DIODE	[M]
D803	1SS380TE-17	DIODE	[M]
D804	B0ACCK000005	DIODE	[M]
D805	B0ACCK000005	DIODE	[M]
D806	B0ADCJ000020	DIODE	[M]
D807	B0ACCK000005	DIODE	[M]
D900	B3AAA0000583	DIODE	[M]
D901	LNJ301MPUJAD	DIODE	[M]
D902	LNJ301MPUJAD	DIODE	[M]
D903	LNJ301MPUJAD	DIODE	[M]
D904	LNJ301MPUJAD	DIODE	[M]
D905	LNJ301MPUJAD	DIODE	[M]
D906	B0BC5R000009	DIODE	[M]
D908	B0ACCK000005	DIODE	[M]
D909	LNJ301MPUJAD	DIODE	[M]
D5131	MA2J72800L	DIODE	[M]
		INDUCTOR	
LB2501	J0JHC0000045	CHIP BEADS	[M]
LB2502	J0JHC0000045	CHIP BEADS	[M]
LB2503	J0JHC0000045	CHIP BEADS	[M]
LB3001	J0JHC0000045	CHIP BEADS	[M]
LB3002	J0JHC0000045	CHIP BEADS	[M]
LB3201	D0GB101JA002	100 1/16W	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]
LB3204	J0JCC0000119	CHIP INDUCTOR	[M]
LB3205	J0JCC0000119	CHIP INDUCTOR	[M]
LB3206	J0JCC0000119	CHIP INDUCTOR	[M]
LB3207	J0JCC0000119	CHIP INDUCTOR	[M]
LB3208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4200	J0JBC0000015	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB4201	J0JCC0000119	CHIP INDUCTOR	[M]
LB4207	J0JCC0000119	CHIP INDUCTOR	[M]
LB4208	J0JCC0000119	CHIP INDUCTOR	[M]
LB4209	J0JCC0000119	CHIP INDUCTOR	[M]
LB4210	J0JCC0000119	CHIP INDUCTOR	[M]
LB4211	J0JCC0000119	CHIP INDUCTOR	[M]
LB4212	J0JCC0000119	CHIP INDUCTOR	[M]
LB4214	J0JCC0000119	CHIP INDUCTOR	[M]
LB4215	J0JCC0000119	CHIP INDUCTOR	[M]
LB4216	J0JBC0000015	CHIP INDUCTOR	[M]
LB4217	J0JBC0000015	CHIP INDUCTOR	[M]
LB4218	ERJ3GEY0R00V	0 1/16W	[M]
LB5101	J0JHC0000045	CHIP BEADS	[M]
LB5102	J0JBC0000015	CHIP INDUCTOR	[M]
LB5103	J0JBC0000015	CHIP INDUCTOR	[M]
LB5201	J0JBC0000015	CHIP INDUCTOR	[M]
LB5204	J0JCC0000119	CHIP INDUCTOR	[M]
LB5205	J0JCC0000119	CHIP INDUCTOR	[M]
LB5206	J0JBC0000015	CHIP INDUCTOR	[M]
LB5207	J0JCC0000119	CHIP INDUCTOR	[M]
LB5208	J0JBC0000015	CHIP INDUCTOR	[M]
LB5210	J0JCC0000119	CHIP INDUCTOR	[M]
LB5211	J0JCC0000119	CHIP INDUCTOR	[M]
LB5212	J0JCC0000119	CHIP INDUCTOR	[M]
LB5213	J0JCC0000119	CHIP INDUCTOR	[M]
LB5214	J0JHC0000045	CHIP BEADS	[M]
LB5215	J0JCC0000119	CHIP INDUCTOR	[M]
LB5217	J0JCC0000119	CHIP INDUCTOR	[M]
LB5219	J0JCC0000119	CHIP INDUCTOR	[M]
LB5220	J0JBC0000015	CHIP INDUCTOR	[M]
LB5222	ERJ3GEY0R00V	0 1/16W	[M]
LB5228	J0JBC0000015	CHIP INDUCTOR	[M]
LB5229	J0JBC0000015	CHIP INDUCTOR	[M]
LB5231	J0JHC0000045	CHIP BEADS	[M]
LB5233	J0JHC0000045	CHIP BEADS	[M]
LB5235	J0JBC0000015	CHIP INDUCTOR	[M]
LB6261	J0JBC0000015	CHIP INDUCTOR	[M]
LB6301	J0JHC0000045	CHIP BEADS	[M]
LB6561	J0JBC0000015	CHIP INDUCTOR	[M]
LB6562	J0JCC0000167	CHIP INDUCTOR	[M]
LB6564	J0JCC0000077	CHIP BEEZ	[M]
LB6566	J0JBC0000015	CHIP INDUCTOR	[M]
LB6567	J0JCC0000119	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR900	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S900	EVQ21405R	SW DISC EXCHANGE	[M]
S901	EVQ21405R	SW DISC SKIP	[M]
S902	EVQ21405R	SW DISC OPEN/CLOSE	[M]
S903	EVQ21405R	SW PLAY	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S904	EVQ21405R	SW PAUSE	[M]
S905	EVQ21405R	SW STOP	[M]
S906	EVQ11G07K	SW SELECTOR	[M]
S907	EVQ11G07K	SW FORWARD	[M]
S908	EVQ11G07K	SW REVERSE	[M]
S909	EVQ11G07K	SW PROGRAM	[M]
S910	EVQ11G07K	SW CSM	[M]
S912	EVQ11G07K	SW POWER	[M]
S9001	K0L1BA000086	SWITCH	[M]
		CONNECTORS	
CN301	RJS1A9411	11P FFC CONNECTOR	[M]
CN302	RJS2A5622	22P FFC CONNECTOR	[M]
CN303	K1KA11A00093	11P CONNECTOR	[M]
CN304	RJT119W05V	5P PLUG IN	[M]
CN305	K1KA22A00046	22P CONNECTOR	[M]
CN306	K1KA26A00091	CONNECTORS	[M]
CN308	RJS2A5611	11P FFC CONNECTOR	[M]
CN309	RJS2A5611	11P FFC CONNECTOR	[M]
CN900	K1MN22B00043	22P CONNECTOR	[M]
CN901	RJS1A6211-1	11P FFC CONNECTOR	[M]
CN9003	K1MN11B00065	11P CONNECTOR	[M]
CN9102	K1MN11B00065	11P CONNECTOR	[M]
CP100	RJU100W11	11P CONNECTOR	[M]
CP702	K1KB11A00020	11P CONNECTOR	[M]
CP703	K1KA11A00093	11P CONNECTOR	[M]
PS3201	K1KB22A00025	CONNECTOR	[M]
PS4201	K1KB26A00027	CONNECTOR	[M]
FP2501	K1MN15A00037	15P CONNECTOR	[M]
FP5101	K1MN30A00048	30P CONNECTOR	[M]
FP5102	K1MN50B00021	CONNECTOR	[M]
FP5201	K1MN50A00005	CONNECTOR	[M]
		FUSE PROTECTOR	
FP750	K5G202AA0002	FUSE PROTECTOR	[M] ⚠
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	CHOKE COIL	[M]
L2	RLQZPR47KT-Y	CHOKE COIL	[M]
L4	G0A100G00005	INDUCTOR	[M]
L6	G0A101G00022	COIL	[M]
L7	G0A100G00005	INDUCTOR	[M]
L8	G0A100G00005	INDUCTOR	[M]
L9	G0A101G00022	COIL	[M]
L10	J0JBC0000019	CHIP INDUCTOR	[M]
L11	J0JBC0000019	CHIP INDUCTOR	[M]
L50	ELESN220JA	COIL	[M]
L51	ELJFCR39KF	CHIP INDUCTOR	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
L52	J0JBC0000015	CHIP INDUCTOR	[M]
L53	J0JBC0000015	CHIP INDUCTOR	[M]
L54	J0JBC0000015	CHIP INDUCTOR	[M]
L55	J0JBC0000015	CHIP INDUCTOR	[M]
L56	J0JBC0000015	CHIP INDUCTOR	[M]
L57	J0JBC0000015	CHIP INDUCTOR	[M]
L58	J0JBC0000015	CHIP INDUCTOR	[M]
L59	J0JBC0000015	CHIP INDUCTOR	[M]
L60	J0JBC0000015	CHIP INDUCTOR	[M]
L61	J0JBC0000015	CHIP INDUCTOR	[M]
L62	J0JBC0000015	CHIP INDUCTOR	[M]
L63	J0JBC0000015	CHIP INDUCTOR	[M]
L64	J0JBC0000015	CHIP INDUCTOR	[M]
L750	G0A100G00005	INDUCTOR	[M]
L751	G0A100G00005	INDUCTOR	[M]
L800	RLQB3R3KT-1Y	COIL	[M]
L900	J0JBC0000019	CHIP INDUCTOR	[M]
L901	J0JBC0000019	CHIP INDUCTOR	[M]
L902	J0JBC0000019	CHIP INDUCTOR	[M]
L903	J0JBC0000041	CHIP INDUCTOR	[M]
L2001	G1C100K00020	CHIP INDUCTOR	[M]
L2002	G1C100K00020	CHIP INDUCTOR	[M]
L3101	G1C100K00020	CHIP INDUCTOR	[M]
L4211	G1C220KA0038	CHIP INDUCTOR	[M]
L5110	G1C100K00020	CHIP INDUCTOR	[M]
L5221	G1C100K00020	CHIP INDUCTOR	[M]
L6561	G1C220KA0038	CHIP INDUCTOR	[M]
L6562	G1C220KA0038	CHIP INDUCTOR	[M]
		COMPONENT COMBINATION	
Z101	RLA2Z007-T	COIL	[M]
Z102	G2BAE0000003	AM IF BLOCK	[M]
Z900	B3RAD0000035	INFRAREDRAY	[M]
		CERAMIC FILTERS	
CF201	RLFFETWND01M	FM CF	[M]
CF202	RLFFETWND01M	FM CF	[M]
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X700	RSXZ36M8M01T	RESONATOR	[M]
X800	H2B100500004	CERAMIC RESONATORS	[M]
X6501	H0J368600003	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL900	A2BD00000065	FL DISPLAY	[M]
FL4201	F1H0J1050018	1 6.3V	[M]
FL6251	F1J1E1040022	0.1 25V	[M]
FL6252	F1H0J1050018	1 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
FL6253	F1H0J1050018	1 6.3V	[M]
FL6254	F1H0J1050018	1 6.3V	[M]
		FUSE HOLDERS	
FC9101	RWJ4906082SS	WIRE	[M]
		JACKS	
JK101	RJH5414-1	JK ANTENNA	[M]
JK300	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK301	K1U208B00002	JK VIDEO	[M]
JK302	K2HA306B0069	JK 3 PIN	[M]
JK303	RJH2405L	JK 4 PIN RCA	[M]
JK304	RJH2405L	JK 4 PIN RCA	[M]
JK901	RJJ37TK07-X	JK HP/MIC	[M]
		EARTH TERMINAL	
E301	K4CZ01000027	TERMINALS	[M]
E750	K4CZ01000027	TERMINALS	[M]
		WIRES	
W304	REXX0329	5P WIRE	[M]
		RESISTORS	
R1	D0GB1R0JA002	1 1/16W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	D0GB1R0JA002	1 1/16W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	D0GB1R0JA002	1 1/16W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R3	ERJ3GEY0R00V	0 1/16W	[M]
R4	D0GB1R0JA002	1 1/16W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R5	ERJ3GEYJ103V	10K 1/16W	[M]
R6	D0GB1R0JA002	1 1/16W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	D0GB1R0JA002	1 1/16W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	D0GB1R0JA002	1 1/16W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	D0GB1R0JA002	1 1/16W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	D0GB1R0JA002	1 1/16W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	D0GB1R0JA002	1 1/16W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R12	ERJ3GEYJ822V	8.2K 1/16W	[M]
R14	ERJ3GEYJ102V	1K 1/16W	[M]
R15	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R16	ERJ3GEYJ102V	1K 1/16W	[M]
R17	D0GB392JA002	3.9K 1/16W	[M]
R18	ERJ3GEYJ472V	4.7K 1/16W	[M]
R19	ERJ3GEYJ472V	4.7K 1/16W	[M]
R20	ERJ3GEYJ331V	330 1/16W	[M]
R21	D0GB1R0JA002	1 1/16W	[M]
R22	D0GB1R0JA002	1 1/16W	[M]
R23	D0GB122JA019	1.2K 1/16W	[M]
R24	ERJ3GEYJ102V	1K 1/16W	[M]
R25	D0GB100JA002	10 1/16W	[M]
R26	D0GB271JA002	270 1/16W	[M]
R35	ERJ3GEYJ103V	10K 1/16W	[M]
R36	ERJ3GEYJ103V	10K 1/16W	[M]
R54	ERJ3GEYJ223V	22K 1/16W	[M]
R55	ERJ3GEYJ103V	10K 1/16W	[M]
R56	D0HB750ZA003	75 3W	[M]
R57	D0HB750ZA003	75 3W	[M]
R58	D0HB750ZA003	75 3W	[M]
R59	D0HB750ZA003	75 3W	[M]
R60	D0HB750ZA003	75 3W	[M]
R61	ERJ3GEYD750V	75 1/16W	[M]
R62	D0GB1R0JA002	1 1/16W	[M]
R63	D0GB1R0JA002	1 1/16W	[M]
R64	ERJ3GEYJ472V	4.7K 1/16W	[M]
R65	ERJ3GEYJ103V	10K 1/16W	[M]
R66	D0GB121JA002	120 1/16W	[M]
R67	D0GB151JA002	150 1/16W	[M]
R68	ERJ3GEYJ472V	4.7K 1/16W	[M]
R69	ERJ3GEYJ103V	10K 1/16W	[M]
R70	ERJ3GEYJ331V	330 1/16W	[M]
R71	ERJ3GEYJ331V	330 1/16W	[M]
R72	ERJ3GEYJ331V	330 1/16W	[M]
R73	D0GB1R0JA002	1 1/16W	[M]
R74	D0GB1R0JA002	1 1/16W	[M]
R75	ERJ3GEYJ331V	330 1/16W	[M]
R76	D0GB1R0JA002	1 1/16W	[M]
R77	D0GB1R0JA002	1 1/16W	[M]
R78	D0GB1R0JA002	1 1/16W	[M]
R79	D0GB1R0JA002	1 1/16W	[M]
R80	D0GB750JA019	75 1/16W	[M]
R81	D0GB750JA019	75 1/16W	[M]
R82	D0GB750JA019	75 1/16W	[M]
R83	D0GB750JA019	75 1/16W	[M]
R101	ERJ3GEY0R00V	0 1/16W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	D0GB271JA002	270 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	D0GB474JA002	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R114	D0GB562JA002	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	ERJ3GEYJ473V	47K 1/16W	[M]
R118	D0GB332JA002	3.3K 1/16W	[M]
R119	D0GB332JA002	3.3K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	D0GB272JA002	2.7K 1/16W	[M]
R123	D0GB683JA002	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	D0GB820JA019	82 1/16W	[M]
R129	D0GB273JA002	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	D0GB121JA002	120 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	D0GB332JA002	3.3K 1/16W	[M]
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R144	D0GB121JA002	120 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	D0GB820JA019	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ473V	47K 1/16W	[M]
R202	ERJ3GEYJ222V	2.2K 1/16W	[M]
R203	ERJ3GEYJ103V	10K 1/16W	[M]
R204	D0GB392JA002	3.9K 1/16W	[M]
R205	ERJ3GEYJ103V	10K 1/16W	[M]
R206	D0GB392JA002	3.9K 1/16W	[M]
R207	ERJ3GEYJ103V	10K 1/16W	[M]
R208	D0GB392JA002	3.9K 1/16W	[M]
R209	ERJ3GEY0R00V	0 1/16W	[M]
R210	ERJ3GEYJ104V	100K 1/16W	[M]
R211	ERJ3GEYJ472V	4.7K 1/16W	[M]
R212	D0GB272JA002	2.7K 1/16W	[M]
R213	ERJ3GEYJ102V	1K 1/16W	[M]
R214	ERJ3GEYJ103V	10K 1/16W	[M]
R215	ERJ3GEYJ104V	100K 1/16W	[M]
R216	ERJ3GEYJ473V	47K 1/16W	[M]
R219	ERJ3GEYJ103V	10K 1/16W	[M]
R220	ERJ3GEYJ682V	6.8K 1/16W	[M]
R221	ERJ3GEYJ103V	10K 1/16W	[M]
R222	ERJ3GEYJ103V	10K 1/16W	[M]
R223	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R224	ERJ3GEYJ103V	10K 1/16W	[M]
R225	D0GB333JA002	33K 1/16W	[M]
R226	ERJ3GEYJ103V	10K 1/16W	[M]
R227	ERJ3GEYJ102V	1K 1/16W	[M]
R228	D0GB333JA002	33K 1/16W	[M]
R229	D0GB332JA002	3.3K 1/16W	[M]
R230	D0GB273JA002	27K 1/16W	[M]
R231	D0GB302JA008	3K 1/16W	[M]
R232	ERJ3GEYJ102V	1K 1/16W	[M]
R233	D0GB271JA002	270 1/16W	[M]
R234	D0GB392JA002	3.9K 1/16W	[M]
R235	ERJ3GEYJ223V	22K 1/16W	[M]
R236	D0GB392JA002	3.9K 1/16W	[M]
R237	ERJ3GEYJ223V	22K 1/16W	[M]
R238	ERJ3GEYJ102V	1K 1/16W	[M]
R239	ERJ3GEYJ102V	1K 1/16W	[M]
R240	D0GB152JA002	1.5K 1/16W	[M]
R241	D0GB272JA002	2.7K 1/16W	[M]
R242	D0GB563JA002	56K 1/16W	[M]
R243	D0GB563JA002	56K 1/16W	[M]
R244	ERJ3GEYJ104V	100K 1/16W	[M]
R245	ERJ3GEYJ682V	6.8K 1/16W	[M]
R246	D0GB273JA002	27K 1/16W	[M]
R247	ERJ3GEYJ103V	10K 1/16W	[M]
R248	D0GB333JA002	33K 1/16W	[M]
R249	D0GB220JA002	22 1/16W	[M]
R250	D0GB220JA002	22 1/16W	[M]
R251	D0GB220JA002	22 1/16W	[M]
R252	D0GB220JA002	22 1/16W	[M]
R253	ERJ3GEYJ472V	4.7K 1/16W	[M]
R254	D0GB100JA002	10 1/16W	[M]
R255	D0GB332JA002	3.3K 1/16W	[M]
R256	ERJ3GEYJ223V	22K 1/16W	[M]
R257	D0GB273JA002	27K 1/16W	[M]
R258	ERJ3GEYJ102V	1K 1/16W	[M]
R259	D0GB683JA002	68K 1/16W	[M]
R260	ERJ3GEYJ682V	6.8K 1/16W	[M]
R261	D0GB333JA002	33K 1/16W	[M]
R262	ERJ3GEYJ561V	560 1/16W	[M]
R263	ERJ3GEYJ472V	4.7K 1/16W	[M]
R264	ERJ3GEYJ222V	2.2K 1/16W	[M]
R265	ERJ3GEYJ222V	2.2K 1/16W	[M]
R266	ERJ3GEYJ104V	100K 1/16W	[M]
R267	D0GB272JA002	2.7K 1/16W	[M]
R268	D0GB332JA002	3.3K 1/16W	[M]
R269	ERJ3GEYJ222V	2.2K 1/16W	[M]
R301	D0GB273JA002	27K 1/16W	[M]
R302	D0GB272JA002	2.7K 1/16W	[M]
R303	D0GB272JA002	2.7K 1/16W	[M]
R304	D0GB563JA002	56K 1/16W	[M]
R305	ERJ3GEYJ682V	6.8K 1/16W	[M]
R306	D0GB101JA002	100 1/16W	[M]
R307	D0GB333JA002	33K 1/16W	[M]
R308	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R310	D0GB333JA002	33K 1/16W	[M]
R311	ERJ3GEYJ223V	22K 1/16W	[M]
R312	D0GB273JA002	27K 1/16W	[M]
R313	D0GB302JA008	3K 1/16W	[M]
R314	ERJ3GEYJ102V	1K 1/16W	[M]
R315	ERJ3GEYJ102V	1K 1/16W	[M]
R316	ERJ3GEYJ102V	1K 1/16W	[M]
R318	ERJ3GEYJ102V	1K 1/16W	[M]
R319	D0GB271JA002	270 1/16W	[M]
R320	D0GB271JA002	270 1/16W	[M]
R321	D0GB332JA002	3.3K 1/16W	[M]
R322	ERJ3GEYJ472V	4.7K 1/16W	[M]
R323	ERJ3GEYJ822V	8.2K 1/16W	[M]
R324	ERJ3GEYJ822V	8.2K 1/16W	[M]
R325	ERJ3GEYJ104V	100K 1/16W	[M]
R326	D0GB563JA002	56K 1/16W	[M]
R327	ERJ3GEYJ682V	6.8K 1/16W	[M]
R328	D0GB563JA002	56K 1/16W	[M]
R329	ERJ3GEYJ104V	100K 1/16W	[M]
R330	ERJ3GEYJ103V	10K 1/16W	[M]
R331	ERJ3GEYJ682V	6.8K 1/16W	[M]
R332	ERJ3GEYJ104V	100K 1/16W	[M]
R333	ERJ3GEYJ822V	8.2K 1/16W	[M]
R334	D0GB683JA002	68K 1/16W	[M]
R335	ERJ3GEYJ473V	47K 1/16W	[M]
R337	ERJ3GEYJ102V	1K 1/16W	[M]
R338	ERJ3GEYJ182V	1.8K 1/16W	[M]
R339	ERJ3GEYJ182V	1.8K 1/16W	[M]
R340	ERJ3GEYJ182V	1.8K 1/16W	[M]
R343	ERJ3GEYJ473V	47K 1/16W	[M]
R344	ERJ3GEYJ473V	47K 1/16W	[M]
R345	ERJ3GEYJ473V	47K 1/16W	[M]
R346	ERJ3GEYJ391V	390 1/16W	[M]
R347	ERJ3GEYJ472V	4.7K 1/16W	[M]
R348	ERJ3GEYJ222V	2.2K 1/16W	[M]
R349	ERJ3GEYJ222V	2.2K 1/16W	[M]
R350	D0GB332JA002	3.3K 1/16W	[M]
R351	D0GB273JA002	27K 1/16W	[M]
R352	D0GB563JA002	56K 1/16W	[M]
R353	ERJ3GEYJ391V	390 1/16W	[M]
R354	ERJ3GEYJ182V	1.8K 1/16W	[M]
R355	D0GB563JA002	56K 1/16W	[M]
R357	D0GB273JA002	27K 1/16W	[M]
R358	D0GB563JA002	56K 1/16W	[M]
R359	D0GB273JA002	27K 1/16W	[M]
R360	D0GB563JA002	56K 1/16W	[M]
R361	D0GB273JA002	27K 1/16W	[M]
R362	D0GB563JA002	56K 1/16W	[M]
R363	D0GB273JA002	27K 1/16W	[M]
R364	ERJ3GEYJ103V	10K 1/16W	[M]
R365	ERJ3GEYJ182V	1.8K 1/16W	[M]
R366	D0GB563JA002	56K 1/16W	[M]
R367	D0GB273JA002	27K 1/16W	[M]
R368	D0GB332JA002	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R369	D0GB563JA002	56K 1/16W	[M]
R370	ERJ3GEYJ102V	1K 1/16W	[M]
R401	ERJ3GEYJ473V	47K 1/16W	[M]
R402	ERJ3GEYJ222V	2.2K 1/16W	[M]
R403	ERJ3GEYJ103V	10K 1/16W	[M]
R404	D0GB392JA002	3.9K 1/16W	[M]
R405	ERJ3GEYJ103V	10K 1/16W	[M]
R406	D0GB392JA002	3.9K 1/16W	[M]
R407	ERJ3GEYJ103V	10K 1/16W	[M]
R408	D0GB392JA002	3.9K 1/16W	[M]
R409	ERJ3GEY0R00V	0 1/16W	[M]
R410	ERJ3GEYJ104V	100K 1/16W	[M]
R411	ERJ3GEYJ472V	4.7K 1/16W	[M]
R412	D0GB272JA002	2.7K 1/16W	[M]
R413	ERJ3GEYJ102V	1K 1/16W	[M]
R414	ERJ3GEYJ103V	10K 1/16W	[M]
R415	ERJ3GEYJ104V	100K 1/16W	[M]
R416	ERJ3GEYJ473V	47K 1/16W	[M]
R419	ERJ3GEYJ103V	10K 1/16W	[M]
R420	ERJ3GEYJ682V	6.8K 1/16W	[M]
R421	ERJ3GEYJ103V	10K 1/16W	[M]
R422	ERJ3GEYJ103V	10K 1/16W	[M]
R423	ERJ3GEYJ103V	10K 1/16W	[M]
R424	ERJ3GEYJ103V	10K 1/16W	[M]
R425	D0GB333JA002	33K 1/16W	[M]
R426	ERJ3GEYJ103V	10K 1/16W	[M]
R427	ERJ3GEYJ102V	1K 1/16W	[M]
R428	D0GB333JA002	33K 1/16W	[M]
R429	D0GB332JA002	3.3K 1/16W	[M]
R430	D0GB273JA002	27K 1/16W	[M]
R431	D0GB302JA008	3K 1/16W	[M]
R432	ERJ3GEYJ102V	1K 1/16W	[M]
R433	D0GB271JA002	270 1/16W	[M]
R434	D0GB392JA002	3.9K 1/16W	[M]
R435	ERJ3GEYJ223V	22K 1/16W	[M]
R436	D0GB392JA002	3.9K 1/16W	[M]
R437	ERJ3GEYJ223V	22K 1/16W	[M]
R438	ERJ3GEYJ102V	1K 1/16W	[M]
R439	ERJ3GEYJ102V	1K 1/16W	[M]
R440	D0GB152JA002	1.5K 1/16W	[M]
R441	D0GB272JA002	2.7K 1/16W	[M]
R442	D0GB563JA002	56K 1/16W	[M]
R443	D0GB563JA002	56K 1/16W	[M]
R444	ERJ3GEYJ104V	100K 1/16W	[M]
R445	ERJ3GEYJ682V	6.8K 1/16W	[M]
R446	D0GB273JA002	27K 1/16W	[M]
R447	ERJ3GEYJ103V	10K 1/16W	[M]
R448	D0GB333JA002	33K 1/16W	[M]
R449	D0GB220JA002	22 1/16W	[M]
R450	D0GB220JA002	22 1/16W	[M]
R451	D0GB220JA002	22 1/16W	[M]
R452	D0GB220JA002	22 1/16W	[M]
R453	ERJ3GEYJ472V	4.7K 1/16W	[M]
R454	D0GB100JA002	10 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R455	D0GB332JA002	3.3K 1/16W	[M]
R456	ERJ3GEYJ223V	22K 1/16W	[M]
R457	D0GB273JA002	27K 1/16W	[M]
R458	ERJ3GEYJ102V	1K 1/16W	[M]
R459	D0GB683JA002	68K 1/16W	[M]
R460	ERJ3GEYJ682V	6.8K 1/16W	[M]
R461	D0GB333JA002	33K 1/16W	[M]
R462	ERJ3GEYJ561V	560 1/16W	[M]
R463	ERJ3GEYJ472V	4.7K 1/16W	[M]
R464	ERJ3GEYJ222V	2.2K 1/16W	[M]
R465	ERJ3GEYJ222V	2.2K 1/16W	[M]
R466	ERJ3GEYJ104V	100K 1/16W	[M]
R467	D0GB272JA002	2.7K 1/16W	[M]
R468	D0GB332JA002	3.3K 1/16W	[M]
R469	ERJ3GEYJ222V	2.2K 1/16W	[M]
R701	ERJ3GEYJ472V	4.7K 1/16W	[M]
R706	ERJ3GEYJ470V	47 1/16W	[M]
R707	ERJ3GEYJ221V	220 1/16W	[M]
R708	D0GB105JA002	1M 1/16W	[M]
R709	ERJ3GEYJ104V	100K 1/16W	[M]
R710	ERJ3GEYJ472V	4.7K 1/16W	[M]
R711	ERJ3GEYJ331V	330 1/16W	[M]
R712	ERJ3GEYJ331V	330 1/16W	[M]
R713	ERJ3GEYJ331V	330 1/16W	[M]
R722	D0GB393JA002	39K 1/16W	[M]
R723	D0GB563JA002	56K 1/16W	[M]
R724	D0GB332JA002	3.3K 1/16W	[M]
R725	ERJ3GEY0R00V	0 1/16W	[M]
R726	ERJ3GEY0R00V	0 1/16W	[M]
R727	ERJ3GEYJ102V	1K 1/16W	[M]
R728	D0GB274JA002	270K 1/16W	[M]
R729	ERJ3GEYJ153V	15K 1/16W	[M]
R730	ERJ3GEYJ822V	8.2K 1/16W	[M]
R731	ERJ3GEYJ823V	82K 1/16W	[M]
R732	ERJ3GEYJ823V	82K 1/16W	[M]
R733	D0GB332JA002	3.3K 1/16W	[M]
R734	ERJ3GEYJ472V	4.7K 1/16W	[M]
R735	ERJ3GEYJ472V	4.7K 1/16W	[M]
R736	ERJ3GEYJ103V	10K 1/16W	[M]
R737	ERJ3GEYJ223V	22K 1/16W	[M]
R738	ERJ3GEYJ472V	4.7K 1/16W	[M]
R739	ERJ3GEYJ104V	100K 1/16W	[M]
R740	ERJ3GEYJ153V	15K 1/16W	[M]
R750	ERDS1FVJ471T	470 1/2W	[M]
R751	ERD2FCVJ4R7T	4.7 1/4W	[M]
R757	D0GB122JA019	1.2K 1/16W	[M]
R758	ERJ3GEYJ103V	10K 1/16W	[M]
R759	ERJ3GEYJ331V	330 1/16W	[M]
R760	ERJ3GEYJ471V	470 1/16W	[M]
R761	ERJ3GEYJ182V	1.8K 1/16W	[M]
R762	D0GB272JA002	2.7K 1/16W	[M]
R763	D0GB272JA002	2.7K 1/16W	[M]
R764	ERJ3GEYJ472V	4.7K 1/16W	[M]
R765	D0GB151JA008	150 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R766	ERJ3GEYJ561V	560 1/16W	[M]
R767	D0GB272JA002	2.7K 1/16W	[M]
R768	D0GB151JA008	150 1/16W	[M]
R769	D0GB821JA002	820 1/16W	[M]
R770	ERD2FCVJ4R7T	4.7 1/4W	[M]
R771	ERJ3GEYJ472V	4.7K 1/16W	[M]
R772	ERJ3GEYJ471V	470 1/16W	[M]
R773	ERD2FCVJ4R7T	4.7 1/4W	[M]
R774	D0GB1R0JA002	1 1/16W	[M]
R775	D0GB1R0JA002	1 1/16W	[M]
R776	D0GB1R0JA002	1 1/16W	[M]
R777	D0GB1R0JA002	1 1/16W	[M]
R778	D0GB1R0JA002	1 1/16W	[M]
R779	ERJ3GEY0R00V	0 1/16W	[M]
R780	ERJ3GEY0R00V	0 1/16W	[M]
R801	ERJ3GEYJ681V	680 1/16W	[M]
R802	ERJ3GEYJ473V	47K 1/16W	[M]
R803	ERJ3GEYJ471V	470 1/16W	[M]
R804	ERJ3GEYJ223V	22K 1/16W	[M]
R805	ERJ3GEYJ103V	10K 1/16W	[M]
R807	ERJ3GEYJ103V	10K 1/16W	[M]
R808	ERJ3GEYJ221V	220 1/16W	[M]
R809	ERJ3GEYJ221V	220 1/16W	[M]
R810	ERJ3GEYJ221V	220 1/16W	[M]
R811	ERJ3GEYJ221V	220 1/16W	[M]
R812	ERJ3GEYJ221V	220 1/16W	[M]
R813	ERJ3GEYJ221V	220 1/16W	[M]
R814	ERJ3GEYJ103V	10K 1/16W	[M]
R815	ERJ3GEYJ102V	1K 1/16W	[M]
R817	ERJ3GEYJ221V	220 1/16W	[M]
R818	ERJ3GEYJ221V	220 1/16W	[M]
R819	ERJ3GEYJ221V	220 1/16W	[M]
R820	ERJ3GEYJ221V	220 1/16W	[M]
R821	ERJ3GEYJ221V	220 1/16W	[M]
R822	ERJ3GEYJ221V	220 1/16W	[M]
R823	ERJ3GEYJ221V	220 1/16W	[M]
R824	ERJ3GEYJ221V	220 1/16W	[M]
R825	ERJ3GEYJ221V	220 1/16W	[M]
R826	ERJ3GEYJ103V	10K 1/16W	[M]
R827	ERJ3GEYJ103V	10K 1/16W	[M]
R828	ERJ3GEYJ331V	330 1/16W	[M]
R829	ERJ3GEYJ681V	680 1/16W	[M]
R830	ERJ3GEYJ681V	680 1/16W	[M]
R831	ERJ3GEYJ681V	680 1/16W	[M]
R832	D0GB101JA002	100 1/16W	[M]
R833	ERJ3GEYJ102V	1K 1/16W	[M]
R834	ERJ3GEYJ102V	1K 1/16W	[M]
R835	ERJ3GEYJ221V	220 1/16W	[M]
R836	ERJ3GEYJ221V	220 1/16W	[M]
R837	ERJ3GEYJ331V	330 1/16W	[M]
R838	ERJ3GEYJ331V	330 1/16W	[M]
R839	ERJ3GEYJ102V	1K 1/16W	[M]
R840	ERJ3GEYJ182V	1.8K 1/16W	[M]
R841	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R842	ERJ3GEYJ102V	1K 1/16W	[M]
R843	ERJ3GEYJ102V	1K 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEY0R00V	0 1/16W	[M]
R846	ERJ3GEYJ223V	22K 1/16W	[M]
R847	ERJ3GEYJ223V	22K 1/16W	[M]
R848	ERJ3GEYJ472V	4.7K 1/16W	[M]
R850	ERJ3GEYJ221V	220 1/16W	[M]
R851	ERJ3GEYJ331V	330 1/16W	[M]
R852	D0GB393JA002	39K 1/16W	[M]
R853	ERJ3GEYJ472V	4.7K 1/16W	[M]
R854	ERJ3GEYJ104V	100K 1/16W	[M]
R855	ERJ3GEYJ331V	330 1/16W	[M]
R856	ERJ3GEYJ331V	330 1/16W	[M]
R857	ERJ3GEYJ331V	330 1/16W	[M]
R858	D0GB272JA002	2.7K 1/16W	[M]
R859	ERJ3GEYJ331V	330 1/16W	[M]
R860	ERJ3GEYJ331V	330 1/16W	[M]
R861	ERJ3GEYJ331V	330 1/16W	[M]
R862	ERJ3GEYJ221V	220 1/16W	[M]
R863	ERJ3GEYJ223V	22K 1/16W	[M]
R864	ERJ3GEYJ223V	22K 1/16W	[M]
R865	ERJ3GEYJ221V	220 1/16W	[M]
R866	ERJ3GEYJ221V	220 1/16W	[M]
R867	ERJ3GEYJ102V	1K 1/16W	[M]
R868	ERJ3GEYJ102V	1K 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	ERJ3GEYJ103V	10K 1/16W	[M]
R871	ERJ3GEYJ103V	10K 1/16W	[M]
R872	ERJ3GEYJ103V	10K 1/16W	[M]
R873	ERJ3GEYJ102V	1K 1/16W	[M]
R874	ERJ3GEYJ102V	1K 1/16W	[M]
R875	ERJ3GEYJ221V	220 1/16W	[M]
R876	ERJ3GEYJ331V	330 1/16W	[M]
R877	ERJ3GEYJ331V	330 1/16W	[M]
R878	ERJ3GEYJ221V	220 1/16W	[M]
R879	ERJ3GEYJ221V	220 1/16W	[M]
R880	ERJ3GEYJ221V	220 1/16W	[M]
R881	ERJ3GEYJ221V	220 1/16W	[M]
R882	D0GB101JA002	100 1/16W	[M]
R883	ERJ3GEYJ221V	220 1/16W	[M]
R884	D0GB821JA002	820 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R887	ERJ3GEYJ103V	10K 1/16W	[M]
R888	ERJ3GEY0R00V	0 1/16W	[M]
R889	ERJ3GEYJ103V	10K 1/16W	[M]
R890	D0GB101JA002	100 1/16W	[M]
R891	ERJ3GEYJ103V	10K 1/16W	[M]
R896	D0GB393JA002	39K 1/16W	[M]
R897	ERJ3GEYJ153V	15K 1/16W	[M]
R898	ERJ3GEYJ221V	220 1/16W	[M]
R899	ERJ3GEYJ221V	220 1/16W	[M]
R900	D0GB272JA002	2.7K 1/16W	[M]
R901	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R902	ERJ3GEYJ182V	1.8K 1/16W	[M]
R903	D0GB122JA019	1.2K 1/16W	[M]
R904	ERJ3GEYJ102V	1K 1/16W	[M]
R905	ERJ3GEYJ182V	1.8K 1/16W	[M]
R906	ERJ3GEYJ391V	390 1/16W	[M]
R907	ERJ3GEYJ391V	390 1/16W	[M]
R908	ERJ3GEYJ391V	390 1/16W	[M]
R909	ERJ3GEYJ391V	390 1/16W	[M]
R910	ERJ3GEYJ391V	390 1/16W	[M]
R911	D0GB151JA008	150 1/16W	[M]
R912	D0GB151JA008	150 1/16W	[M]
R913	ERJ3GEYJ223V	22K 1/16W	[M]
R914	D0GB273JA002	27K 1/16W	[M]
R915	D0GB332JA002	3.3K 1/16W	[M]
R916	D0GB332JA002	3.3K 1/16W	[M]
R917	D0GB332JA002	3.3K 1/16W	[M]
R922	ERJ3GEYJ102V	1K 1/16W	[M]
R923	ERJ3GEYJ102V	1K 1/16W	[M]
R924	D0GB122JA019	1.2K 1/16W	[M]
R925	ERJ3GEYJ182V	1.8K 1/16W	[M]
R926	ERJ3GEYJ222V	2.2K 1/16W	[M]
R927	D0GB332JA002	3.3K 1/16W	[M]
R928	ERJ3GEYJ223V	22K 1/16W	[M]
R929	ERJ3GEYJ223V	22K 1/16W	[M]
R931	ERJ3GEYJ470V	47 1/16W	[M]
R932	ERJ3GEYJ472V	4.7K 1/16W	[M]
R933	D0GB271JA002	270 1/16W	[M]
R938	ERJ3GEYJ102V	1K 1/16W	[M]
R2011	J0JBC0000015	INDUCTOR	[M]
R2012	D0GB752JA008	7.5K 1/16W	[M]
R2013	J0JBC0000015	INDUCTOR	[M]
R2014	ERJ3GEYJ223V	22K 1/16W	[M]
R2015	J0JBC0000015	INDUCTOR	[M]
R2016	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2017	J0JBC0000015	INDUCTOR	[M]
R2018	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2021	ERJ3GEYJ153V	15K 1/16W	[M]
R2022	ERJ3GEYJ103V	10K 1/16W	[M]
R2023	ERJ3GEYJ153V	15K 1/16W	[M]
R2031	D0GB683JA002	68K 1/16W	[M]
R2032	ERJ3GEYJ102V	1K 1/16W	[M]
R2033	ERJ3RBD153V	15K 3W	[M]
R2041	ERJ3GEYJ473V	47K 1/16W	[M]
R2051	ERJ3RBD392V	3.9K 3W	[M]
R2501	D0GB101JA002	100 1/16W	[M]
R2502	D0GB101JA002	100 1/16W	[M]
R2503	ERJ3GEY0R00V	0 1/16W	[M]
R2504	ERJ14YKR39H	0.KR 1/4W	[M]
R2521	D0GF6R8JA017	6.8 1/16W	[M]
R2522	ERJ3GEY0R00V	0 1/16W	[M]
R2523	ERJ3GEY0R00V	0 1/16W	[M]
R2524	ERJ3GEY0R00V	0 1/16W	[M]
R3001	J0JCC0000119	INDUCTOR	[M]
R3002	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3003	ERJ3GEYJ103V	10K 1/16W	[M]
R3012	ERJ3GEYJ473V	47K 1/16W	[M]
R3013	ERJ3GEYJ330V	33 1/16W	[M]
R3041	D0GB101JA002	100 1/16W	[M]
R3042	D0GB101JA002	100 1/16W	[M]
R3043	D0GB101JA002	100 1/16W	[M]
R3101	ERJ3RBD153V	15K 3W	[M]
R3102	ERJ3RBD272V	2.7K 3W	[M]
R3103	ERJ3RBD203V	20K 3W	[M]
R3104	ERJ3RBD222V	2.2K 3W	[M]
R3105	ERJ3RBD152V	1.5K 3W	[M]
R3111	ERJ3RED620V	62 3W	[M]
R3112	ERJ3RED150V	15 3W	[M]
R3116	ERJ3RED620V	62 3W	[M]
R3117	ERJ3RED130V	13 3W	[M]
R3121	ERJ3RBD101V	100 3W	[M]
R3122	ERJ3RED160V	16 3W	[M]
R3126	ERJ3RED560V	56 3W	[M]
R3131	ERJ3RED560V	56 3W	[M]
R4213	ERJ3GEYJ470V	47 1/16W	[M]
R5101	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5111	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5112	ERJ12YJ270H	27 1/2W	[M]
R5113	ERJ3GEYJ473V	47K 1/16W	[M]
R5114	ERJ3GEYJ223V	22K 1/16W	[M]
R5115	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5116	ERJ12YJ270H	27 1/2W	[M]
R5117	ERJ3GEYJ473V	47K 1/16W	[M]
R5121	D0GB560JA002	56 1/16W	[M]
R5122	D0GB560JA002	56 1/16W	[M]
R5123	D0GB560JA002	56 1/16W	[M]
R5124	D0GB560JA002	56 1/16W	[M]
R5125	D0GB560JA002	56 1/16W	[M]
R5126	ERJ3GEYJ102V	1K 1/16W	[M]
R5127	D0GB560JA002	56 1/16W	[M]
R5201	ERJ3GEY0R00V	0 1/16W	[M]
R5202	ERJ3GEY0R00V	0 1/16W	[M]
R5221	ERJ3GEY0R00V	0 1/16W	[M]
R5222	ERJ3GEYJ102V	1K 1/16W	[M]
R5223	D0GB331JA002	330 1/16W	[M]
R5225	ERJ3GEY0R00V	0 1/16W	[M]
R5226	ERJ3GEYJ102V	1K 1/16W	[M]
R5227	D0GB331JA002	330 1/16W	[M]
R5231	J0JCC0000119	INDUCTOR	[M]
R5232	J0JCC0000119	INDUCTOR	[M]
R5233	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5234	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6201	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6203	ERJ3GEY0R00V	0 1/16W	[M]
R6261	ERJ3GEYJ103V	10K 1/16W	[M]
R6311	ERJ3GEYJ103V	10K 1/16W	[M]
R6312	ERJ3GEYJ103V	10K 1/16W	[M]
R6351	D0GB101JA002	100 1/16W	[M]
R6562	ERJ3GEYJ471V	470 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6563	ERJ3GEYJ103V	10K 1/16W	[M]
R6564	D0GB100JA002	10 1/16W	[M]
R6565	ERJ3GEYJ470V	47 1/16W	[M]
K2041	ERJ3GEY0R00V	0 1/16W	[M]
K2501	ERJ3GEY0R00V	0 1/16W	[M]
K2502	ERJ3GEY0R00V	0 1/16W	[M]
K2522	ERJ3GEY0R00V	0 1/16W	[M]
K3011	ERJ6GEY0R00V	0 1/10W	[M]
K3012	ERJ3GEY0R00V	0 1/16W	[M]
K3013	ERJ3GEY0R00V	0 1/16W	[M]
K3014	ERJ3GEY0R00V	0 1/16W	[M]
K3015	ERJ3GEY0R00V	0 1/16W	[M]
K3016	ERJ3GEY0R00V	0 1/16W	[M]
K3017	ERJ3GEY0R00V	0 1/16W	[M]
K3111	ERJ3GEY0R00V	0 1/16W	[M]
K3116	ERJ3GEY0R00V	0 1/16W	[M]
K3121	ERJ3GEY0R00V	0 1/16W	[M]
K3126	ERJ3GEY0R00V	0 1/16W	[M]
K3131	ERJ3GEY0R00V	0 1/16W	[M]
K5201	ERJ3GEY0R00V	0 1/16W	[M]
K5202	ERJ3GEY0R00V	0 1/16W	[M]
K5203	ERJ3GEY0R00V	0 1/16W	[M]
K5204	ERJ3GEY0R00V	0 1/16W	[M]
K6253	ERJ6GEY0R00V	0 1/10W	[M]
K6254	ERJ3GEY0R00V	0 1/16W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
K6302	ERJ3GEY0R00V	0 1/16W	[M]
RA2025	EXBV4V473JV	47K 1/16W	[M]
RA2501	EXBV4V103JV	10K 1/16W	[M]
RA2521	EXBV8V473JV	47K 1/16W	[M]
RA3001	EXBV8V820JV	82 1/16W	[M]
RA3002	EXBV8V820JV	82 1/16W	[M]
RA3003	EXBV8V820JV	82 1/16W	[M]
RA3004	EXBV8V820JV	82 1/16W	[M]
RA3005	EXBV4V220JV	22 1/16W	[M]
RA3009	EXBV8V820JV	82 1/16W	[M]
RA3010	EXBV8V820JV	82 1/16W	[M]
RA3011	EXBV8V820JV	82 1/16W	[M]
RA3012	EXBV8V820JV	82 1/16W	[M]
RA3025	EXBV4V102JV	1K 1/16W	[M]
RA3041	EXBV4V101JV	100 1/16W	[M]
RA3042	EXBV4V101JV	100 1/16W	[M]
RA5121	EXBV8V560JV	56 1/16W	[M]
RA5122	EXBV4V560JV	56 1/16W	[M]
RA5123	EXBV4V560JV	56 1/16W	[M]
RA6201	EXBV4V472JV	4.7K 1/16W	[M]
RA6261	EXBV4V103JV	10K 1/16W	[M]
RA6351	EXBV4V472JV	4.7K 1/16W	[M]
		CAPACITORS	
C1	ECBT1H5R6KC5	5.6P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2	RCBS1H102KBY	1000P 50V	[M]
C3	ECBT1H2R2KC5	2.2P 50V	[M]
C4	ECBT1H181KB5	180P 50V	[M]
C4	ECJ1VB1H103K	0.01 50V	[M]
C5	ECBT1H5R6KC5	5.6P 50V	[M]
C5	ECEA1EKA330B	33 25V	[M]
C6	ECBT1H3R3KC5	3.3P 50V	[M]
C7	ECBT1H4R7KC5	4.7P 50V	[M]
C7	ECEA1CKA100B	10 16V	[M]
C8	ECBT1H3R3KC5	3.3P 50V	[M]
C8	EEUFC0J821B	820P 6.3V	[M]
C9	ECA1EM221B	220 25V	[M]
C9	ECBT1H2R2KC5	2.2P 50V	[M]
C10	ECBT1H180JC5	18P 50V	[M]
C10	ECUVNA105KBV	1 10V	[M]
C11	ECUVNA105KBV	1 10V	[M]
C11	RCBS1H102KBY	1000P 50V	[M]
C12	ECEA0JKA221B	220 6.3V	[M]
C13	ECUVNA105KBV	1 10V	[M]
C14	ECUVNA105KBV	1 10V	[M]
C15	ECA1EM221B	220 25V	[M]
C16	EEUFC0J821B	820P 6.3V	[M]
C17	ECEA1CKA100B	10 16V	[M]
C18	ECUVNA105KBV	1 10V	[M]
C21	ECEA1AKA101B	100 10V	[M]
C22	ECUV1C104KBV	0.1 16V	[M]
C25	ECUVNA105KBV	1 10V	[M]
C26	ECEA0JKA221B	220 6.3V	[M]
C27	ECUVNA105KBV	1 10V	[M]
C28	ECEA0JKA221B	220 6.3V	[M]
C29	ECUVNA105KBV	1 10V	[M]
C30	ECEA1AKA101B	100 10V	[M]
C31	ECUV1H104KBV	0.1 50V	[M]
C32	ECUV1H104KBV	0.1 50V	[M]
C33	ECJ1VB1H681K	680P 50V	[M]
C34	ECJ1VB1H681K	680P 50V	[M]
C40	ECJ1VB1E103K	0.01 25V	[M]
C41	ECJ1VB1E103K	0.01 25V	[M]
C50	ECA1AAD221XI	220 10V	[M]
C51	ECA1CAD470XI	47 16V	[M]
C52	ECA1CAD470XI	47 16V	[M]
C53	ECJ1VB1H103K	0.01 50V	[M]
C54	ECJ1VC1H220J	22P 50V	[M]
C55	ECA1CAD470XI	47 16V	[M]
C56	ECJ1VB1H103K	0.01 50V	[M]
C57	ECA1CAD470XI	47 16V	[M]
C58	ECJ1VB1H103K	0.01 50V	[M]
C59	ECJ1VB1H103K	0.01 50V	[M]
C60	ECA1AM102B	1000 10V	[M]
C61	ECEA0JKA101B	100 6.3V	[M]
C62	ECA1AM102B	1000 10V	[M]
C63	ECEA0JKA101B	100 6.3V	[M]
C64	ECA0JM102B	1000 6.3V	[M]
C65	ECEA0JKA101B	100 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C66	ECEA0JKA331B	330 6.3V	[M]
C67	ECEA0JKA331B	330 6.3V	[M]
C68	TEESVB21A476	0.21 35V	[M]
C69	ECUV1C104KBV	0.1 16V	[M]
C72	ECUVNA105KBV	1 10V	[M]
C73	ECUVNA105KBV	1 10V	[M]
C74	ECJ1VB1H103K	0.01 50V	[M]
C75	F1J1A105A017	10 10V	[M]
C76	F1J1A105A017	10 10V	[M]
C77	ECJ1VB1H103K	0.01 50V	[M]
C78	ECA1CAD101XI	100 16V	[M]
C79	ECEA0JKS331I	330 6.3V	[M]
C80	F1J1H101A619	100P 50V	[M]
C81	F1J1H101A619	100P 50V	[M]
C82	F1J1H101A619	100P 50V	[M]
C83	F1J1H101A619	100P 50V	[M]
C84	F1J1H101A619	100P 50V	[M]
C85	F1J1H101A619	100P 50V	[M]
C86	ECUVNA105KBN	1 10V	[M]
C87	ECUVNA105KBN	1 10V	[M]
C101	ECJ1VB1E103K	0.01 25V	[M]
C102	ECEA1CKA100B	10 16V	[M]
C103	ECJ1VB1E103K	0.01 25V	[M]
C104	ECJ1VB1H102K	1000P 50V	[M]
C106	ECJ1VB1E103K	0.01 25V	[M]
C107	F1H1E473A062	0.047 25V	[M]
C108	F1H1H8R0A787	8.0P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECJ1VB1E103K	0.01 25V	[M]
C111	ECEA1HKA4R7B	4.7 50V	[M]
C112	ECJ1VB1E103K	0.01 25V	[M]
C113	ECJ1VB1H102K	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1HKA4R7B	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECJ1VB1E103K	0.01 25V	[M]
C118	ECJ1VB1E103K	0.01 25V	[M]
C119	F0A2A681A010	680P 100V	[M]
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECJ1VC1H101K	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	1 16V	[M]
C127	ECEA1CKA220B	22 16V	[M]
C128	ERJ3GEY0R00V	0 1/16W	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECJ1VC1H151J	150P 50V	[M]
C132	ECJ1VB1H102K	1000P 50V	[M]
C133	ECJ1VC1H270J	27P 50V	[M]
C134	ECJ1VC1H270J	27P 50V	[M]
C136	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C137	ECJ1VB1H332K	3300P 50V	[M]
C138	ECJ1VB1E103K	0.01 25V	[M]
C139	ECEA1HKA4R7B	4.7 50V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECJ1VB1H682K	6800P 50V	[M]
C144	ECJ1VB1H682K	6800P 50V	[M]
C147	ECJ1VB1H102K	1000P 50V	[M]
C148	ECJ1VB1E103K	0.01 25V	[M]
C149	ECUV1C104ZFV	0.1 16V	[M]
C150	ERJ3GEY0R00V	0 1/16W	[M]
C201	ECJ1VB1H221K	220P 50V	[M]
C202	ECJ1VB1H221K	220P 50V	[M]
C203	ECA1HAD4R7XI	4.7 50V	[M]
C204	ECJ1VC1H101K	100P 50V	[M]
C205	ECA1HAD3R3XI	3.3 50V	[M]
C206	ECJ1VC1H101K	100P 50V	[M]
C207	ECJ1VB1H332K	3300P 50V	[M]
C209	ECA1CAD100XI	10 16V	[M]
C210	ECJ1VC1H101K	100P 50V	[M]
C211	ECUV1H470JCV	47P 50V	[M]
C213	ECA1CAD100XI	10 16V	[M]
C214	ECJ1VC1H101K	100P 50V	[M]
C215	ECA1HAD010XI	1 50V	[M]
C217	ECA1CAD100XI	10 16V	[M]
C218	ECUVNA105KBV	1 10V	[M]
C219	ECA1CAD100XI	10 16V	[M]
C220	ECJ1VB1H471K	470P 50V	[M]
C221	ECJ1VC1H101K	100P 50V	[M]
C222	ECA1CAD100XI	10 16V	[M]
C223	ECJ1VB1H471K	470P 50V	[M]
C224	ECJ1VB1H471K	470P 50V	[M]
C225	ECUVNA105KBV	1 10V	[M]
C226	ECJ1VC1H101K	100P 50V	[M]
C227	ECJ1VC1H330J	33P 50V	[M]
C228	ECA1HAD4R7XI	4.7 50V	[M]
C229	ECJ1VB1H222K	2200P 50V	[M]
C230	ECA1HAD4R7XI	4.7 50V	[M]
C231	ECJ1VC1H101K	100P 50V	[M]
C232	ECA1CAD100XI	10 16V	[M]
C233	ECJ1VC1H101K	100P 50V	[M]
C234	ECUV1H470JCV	47P 50V	[M]
C235	ECA1HAD4R7XI	4.7 50V	[M]
C237	ECJ1VB1H102K	1000P 50V	[M]
C238	ECJ2VB1H153K	0.015 50V	[M]
C239	ECA1HADR33XI	0.33 50V	[M]
C240	ECUVNA105KBV	1 10V	[M]
C241	ECUVNA105KBV	1 10V	[M]
C242	ECA1HAD010XI	1 50V	[M]
C243	ECJ1VC1H101K	100P 50V	[M]
C244	ECA1CAD100XI	10 16V	[M]
C245	ECJ1VC1H101K	100P 50V	[M]
C246	ECUV1H470JCV	47P 50V	[M]
C248	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C249	ECA1HADR47XI	0.47 50V	[M]
C250	ECJ1VC1H101K	100P 50V	[M]
C251	ECJ1VC1H330J	33P 50V	[M]
C252	ECA1CAD100XI	10 16V	[M]
C253	ECJ2VB1H333K	0.033 50V	[M]
C254	ECUV1H104KBV	0.1 50V	[M]
C255	ECJ1VC1H101K	100P 50V	[M]
C256	ECA1HAD4R7XI	4.7 50V	[M]
C257	ECA1CAD100XI	10 16V	[M]
C258	ECJ1VC1H330J	33P 50V	[M]
C260	ECUVNA105KBV	1 10V	[M]
C263	ECA1CAD100XI	10 16V	[M]
C264	ECJ1VC1H101K	100P 50V	[M]
C265	ECUVNA105KBV	1 10V	[M]
C272	ECUVNA105KBV	1 10V	[M]
C301	ECEA1HKN4R7B	4.7 50V	[M]
C303	ECJ1VB1E103K	0.01 25V	[M]
C304	ECJ1VB1E103K	0.01 25V	[M]
C305	ECA1CAD100XI	10 16V	[M]
C306	ECUVNA105KBV	1 10V	[M]
C307	ECJ1VB1E103K	0.01 25V	[M]
C308	ECJ1VB1H471K	470P 50V	[M]
C310	ECJ1VB1H471K	470P 50V	[M]
C311	ECUVNA105KBV	1 10V	[M]
C312	ECJ1VC1H330J	33P 50V	[M]
C313	ECJ1VC1H101K	100P 50V	[M]
C314	ECA1CAD100XI	10 16V	[M]
C315	ECUVNA105KBV	1 10V	[M]
C316	ECJ1VC1H101K	100P 50V	[M]
C317	ECUVNA105KBV	1 10V	[M]
C318	ECUVNA105KBV	1 10V	[M]
C322	ECJ1VB1H222K	2200P 50V	[M]
C324	ECJ1VB1H222K	2200P 50V	[M]
C325	ECUVNA105KBV	1 10V	[M]
C326	ECA1CAD100XI	10 16V	[M]
C327	ECUVNA105KBV	1 10V	[M]
C328	ECUVNA105KBV	1 10V	[M]
C329	ECJ1VB1H102K	1000P 50V	[M]
C330	ECA1CAD100XI	10 16V	[M]
C331	ECA1HAD0R1XI	0.1 50V	[M]
C332	ECJ1VB1H102K	1000P 50V	[M]
C333	ECJ1VC1H101K	100P 50V	[M]
C334	ECJ1VB1E103K	0.01 25V	[M]
C335	ECA1CAD100XI	10 16V	[M]
C336	ECJ1VC1H101K	100P 50V	[M]
C337	ECJ1VC1H330J	33P 50V	[M]
C338	ECA1HADR47XI	0.47 50V	[M]
C339	ECUV1H470JCV	47P 50V	[M]
C340	ECUV1H470JCV	47P 50V	[M]
C341	ECUV1H470JCV	47P 50V	[M]
C342	ECJ1VB1E103K	0.01 25V	[M]
C344	ECJ1VB1E103K	0.01 25V	[M]
C346	ECJ1VB1E103K	0.01 25V	[M]
C348	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C349	ECJ1VB1E103K	0.01 25V	[M]
C350	ECJ1VB1E103K	0.01 25V	[M]
C351	ECJ1VB1E103K	0.01 25V	[M]
C352	ECJ1VB1E103K	0.01 25V	[M]
C353	ECUV1C104KBV	0.1 16V	[M]
C354	ECUV1H470JCV	47P 50V	[M]
C355	ECUV1H470JCV	47P 50V	[M]
C356	ECUV1C104KBV	0.1 16V	[M]
C357	ECUV1C104KBV	0.1 16V	[M]
C358	ECA1HAD4R7XI	4.7 50V	[M]
C360	ECA1HAD4R7XI	4.7 50V	[M]
C361	ECA1HAD4R7XI	4.7 50V	[M]
C362	ECA1HAD4R7XI	4.7 50V	[M]
C363	ECA1HAD4R7XI	4.7 50V	[M]
C365	ECA1HAD4R7XI	4.7 50V	[M]
C376	ECJ1VB1E103K	0.01 25V	[M]
C377	ECJ1VB1E103K	0.01 25V	[M]
C378	F1J1A105A017	1 10V	[M]
C379	F1J1A105A017	1 10V	[M]
C380	ECJ1VB1H102K	1000P 50V	[M]
C401	ECJ1VB1H221K	220P 50V	[M]
C402	ECJ1VB1H221K	220P 50V	[M]
C403	ECA1HAD4R7XI	4.7 50V	[M]
C404	ECJ1VC1H101K	100P 50V	[M]
C405	ECA1HAD3R3XI	3.3 50V	[M]
C406	ECJ1VC1H101K	100P 50V	[M]
C407	ECJ1VB1H332K	3300P 50V	[M]
C409	ECA1CAD100XI	10 16V	[M]
C410	ECJ1VC1H101K	100P 50V	[M]
C411	ECUV1H470JCV	47P 50V	[M]
C413	ECA1CAD100XI	10 16V	[M]
C414	ECJ1VC1H101K	100P 50V	[M]
C415	ECA1HAD010XI	1 50V	[M]
C417	ECA1CAD100XI	10 16V	[M]
C418	ECUVNA105KBV	1 10V	[M]
C419	ECA1CAD100XI	10 16V	[M]
C420	ECJ1VB1H471K	470P 50V	[M]
C421	ECJ1VC1H101K	100P 50V	[M]
C422	ECA1CAD100XI	10 16V	[M]
C423	ECJ1VB1H471K	470P 50V	[M]
C424	ECJ1VB1H471K	470P 50V	[M]
C425	ECUVNA105KBV	1 10V	[M]
C426	ECJ1VC1H101K	100P 50V	[M]
C427	ECJ1VC1H330J	33P 50V	[M]
C428	ECA1HAD4R7XI	4.7 50V	[M]
C429	ECJ1VB1H222K	2200P 50V	[M]
C430	ECA1HAD4R7XI	4.7 50V	[M]
C431	ECJ1VC1H101K	100P 50V	[M]
C432	ECA1CAD100XI	10 16V	[M]
C433	ECJ1VC1H101K	100P 50V	[M]
C434	ECUV1H470JCV	47P 50V	[M]
C435	ECA1HAD4R7XI	4.7 50V	[M]
C437	ECJ1VB1H102K	1000P 50V	[M]
C438	ECJ2VB1H153K	0.015 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C439	ECA1HADR33XI	0.33 50V	[M]
C440	ECUVNA105KBV	1 10V	[M]
C441	ECUVNA105KBV	1 10V	[M]
C442	ECA1HAD010XI	1 50V	[M]
C443	ECJ1VC1H101K	100P 50V	[M]
C444	ECA1CAD100XI	10 16V	[M]
C445	ECJ1VC1H101K	100P 50V	[M]
C446	ECUV1H470JCV	47P 50V	[M]
C448	ECJ1VB1H102K	1000P 50V	[M]
C449	ECA1HADR47XI	0.47 50V	[M]
C450	ECJ1VC1H101K	100P 50V	[M]
C451	ECJ1VC1H330J	33P 50V	[M]
C452	ECA1CAD100XI	10 16V	[M]
C453	ECJ2VB1H333K	0.033 50V	[M]
C454	ECUV1H104KBV	0.1 50V	[M]
C455	ECJ1VC1H101K	100P 50V	[M]
C456	ECA1HAD4R7XI	4.7 50V	[M]
C457	ECA1CAD100XI	10 16V	[M]
C458	ECJ1VC1H330J	33P 50V	[M]
C460	ECUVNA105KBV	1 10V	[M]
C463	ECA1CAD100XI	10 16V	[M]
C464	ECJ1VC1H101K	100P 50V	[M]
C465	ECUVNA105KBV	1 10V	[M]
C472	ECUVNA105KBV	1 10V	[M]
C704	ECJ1VB1E103K	0.01 25V	[M]
C705	ECA1HAD4R7XI	4.7 50V	[M]
C706	ECA1AAD221XI	220 10V	[M]
C707	ECA1HAD4R7XI	4.7 50V	[M]
C708	ECUV1C104KBV	0.1 16V	[M]
C709	F1H1H5R0A759	5P 50V	[M]
C710	ECUV1H120JCV	12P 50V	[M]
C711	ECUVNA105KBV	1 10V	[M]
C712	ECUVNA105KBV	1 10V	[M]
C713	ECUVNA105KBV	1 10V	[M]
C714	ECUVNA105KBV	1 10V	[M]
C715	EEAFC0J101H	100P 6.3V	[M]
C716	ECA1CAD470XI	47 16V	[M]
C717	EEAFC0J101H	100P 6.3V	[M]
C718	ECUVNA105KBV	1 10V	[M]
C719	ECUV1C104KBV	0.1 16V	[M]
C720	ECUV1C104KBV	0.1 16V	[M]
C721	ECUVNA105KBV	1 10V	[M]
C722	ECUV1C104KBV	0.1 16V	[M]
C723	F1H1H223A761	0.022 50V	[M]
C724	ECUV1C104KBV	0.1 16V	[M]
C725	ECA1CAD101XI	100 16V	[M]
C726	F1H1H223A761	0.022 50V	[M]
C729	ECJ1VC1H101K	100P 50V	[M]
C731	ECJ1VB1E103K	0.01 25V	[M]
C732	ECA1CAD100XI	10 16V	[M]
C733	ECUV1H104KBV	0.1 50V	[M]
C734	F1H1C393A075	0.039 16V	[M]
C735	ECUVNA154KBV	0.15 10V	[M]
C736	ECJ1VB1H562K	5600P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C737	ECUV1H473KBV	0.047 50V	[M]
C739	ECA1CAD470XI	47 16V	[M]
C740	ECA1CAD470XI	47 16V	[M]
C741	ECA1CAD100XI	10 16V	[M]
C742	ECJ1VB1E103K	0.01 25V	[M]
C750	ECA1EM472B	4700 25V	[M]
C751	ECQE1104KF3	0.1 100V	[M]
C752	ECEA1VKS470I	47 35V	[M]
C753	ECA1HM221B	220 50V	[M]
C754	ECA1EM102B	1000 25V	[M]
C755	ECA1HM101B	100 50V	[M]
C756	ECA1JM101B	100 63V	[M]
C757	ECA1EM102B	1000 25V	[M]
C758	ECA1HM101B	100 50V	[M]
C759	ECA1JM101B	100 63V	[M]
C760	ECA1JM101B	100 63V	[M]
C761	ECJ1VB1H103K	0.01 50V	[M]
C762	ECA1HM101B	100 50V	[M]
C763	ECJ1VB1H103K	0.01 50V	[M]
C764	ECEA1EKA330B	33 25V	[M]
C765	ECJ1VB1H103K	0.01 50V	[M]
C766	ECJ1VB1H103K	0.01 50V	[M]
C767	ECA1EM101B	100 25V	[M]
C768	ECEA1EKA330B	33 25V	[M]
C769	ECJ1VB1H103K	0.01 50V	[M]
C770	ECA1CAD101XI	100 16V	[M]
C772	ECJ1VB1H103K	0.01 50V	[M]
C773	ECA1CAD100XI	10 16V	[M]
C774	ECA1EM101B	100 25V	[M]
C800	ECEA0JKA101B	100 6.3V	[M]
C801	ECUV1C104KBV	0.1 16V	[M]
C802	ECEA1AKA220B	22 10V	[M]
C803	ECJ1VB1E103K	0.01 25V	[M]
C804	RCE1AM102B	1000 10V	[M]
C805	ECEA1HKA2R2B	2.2 50V	[M]
C807	ECUV1C104KBV	0.1 16V	[M]
C809	ECUV1C104KBV	0.1 16V	[M]
C810	ECUV1C104KBV	0.1 16V	[M]
C811	F1H1H223A761	0.022 50V	[M]
C812	F1H1H331A022	330P 50V	[M]
C823	ECEA1HKN4R7B	4.7 50V	[M]
C824	F1H1H331A022	330P 50V	[M]
C825	F1H1H331A022	330P 50V	[M]
C900	ECUV1H473KBV	0.047 50V	[M]
C901	ECUV1H473KBV	0.047 50V	[M]
C902	ECJ1VB1H102K	1000P 50V	[M]
C903	ECEA1VKS220B	22 35V	[M]
C905	ECEA1VKS220B	22 35V	[M]
C907	ECEA1HKS3R3B	3.3 50V	[M]
C909	ECJ1VB1H103K	0.01 50V	[M]
C910	ECJ1VC1H390K	39P 50V	[M]
C911	ECEA0JKS101B	100 6.3V	[M]
C912	ECJ1VB1H103K	0.01 50V	[M]
C914	ECUV1H221JCV	220P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C915	ECUV1H221JCV	220P 50V	[M]
C916	ECUV1H221JCV	220P 50V	[M]
C917	ECUV1H221JCV	220P 50V	[M]
C918	ECEA0JKS470B	47 6.3V	[M]
C919	ECJ1VB1H102K	1000P 50V	[M]
C921	ECJ1VC1H101K	100P 50V	[M]
C922	ECJ1VC1H101K	100P 50V	[M]
C2001	F2G0J1010013	100P 6.3V	[M]
C2002	EEVFC0J101P	100P 6.3V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2011	ECUV1C104KBV	0.1 16V	[M]
C2012	ECUV1C104KBV	0.1 16V	[M]
C2015	ECJ1VC1H102J	1000P 50V	[M]
C2016	ECUV1H821JCV	820P 50V	[M]
C2021	ECJ1VB1H472K	4700P 50V	[M]
C2023	ECJ1VC1H102J	1000P 50V	[M]
C2031	ECJ1VF1A105Z	10 10V	[M]
C2032	ECJ1VF1A105Z	10 10V	[M]
C2033	F1H0J1050013	1 6.3V	[M]
C2034	ECJ1VB1H152K	1500P 50V	[M]
C2035	ECJ1VC1H221J	220P 50V	[M]
C2036	ECUV1C104KBV	0.1 16V	[M]
C2037	ECJ1VB1C103K	0.01 16V	[M]
C2051	ECUV1C333KBV	0.033 16V	[M]
C2052	ECJ1VC1H330J	33P 50V	[M]
C2053	ECUVNC104ZFV	0.1 16V	[M]
C2054	ECUVNC104ZFV	0.1 16V	[M]
C2055	ECUVNC104ZFV	0.1 16V	[M]
C2056	ECJ1VB1C103K	0.01 16V	[M]
C2057	ECJ1VC1H181J	180P 50V	[M]
C2058	ECJ1VB1C183K	0.018 16V	[M]
C2059	ECJ1VB1H562K	5600P 50V	[M]
C2060	ECUV1C104KBV	0.1 16V	[M]
C2501	ECEV1CA101WP	100 16V	[M]
C2502	ECJ1VF1C104Z	0.1 16V	[M]
C2503	ECJ1VF1C104Z	0.1 16V	[M]
C2504	ECJ1VF1C104Z	0.1 16V	[M]
C2511	ECJ1VB1H103K	0.01 50V	[M]
C2512	ECJ1VB1H103K	0.01 50V	[M]
C2513	ECJ1VB1H103K	0.01 50V	[M]
C2514	ECUV1C104KBV	0.1 16V	[M]
C2521	EEVFC0J101P	100P 6.3V	[M]
C2522	ECEV1CA220WR	22 16V	[M]
C2523	EEVFC0J221P	220P 6.3V	[M]
C2524	ECJ1VF1C104Z	0.1 16V	[M]
C2525	ECJ1VF1C104Z	0.1 16V	[M]
C2526	ECJ1VF1C104Z	0.1 16V	[M]
C2527	ECJ1VF1C104Z	0.1 16V	[M]
C2528	ECJ1VF1C104Z	0.1 16V	[M]
C2529	ECJ1VF1C104Z	0.1 16V	[M]
C3001	F2G0J331A015	330P 6.3V	[M]

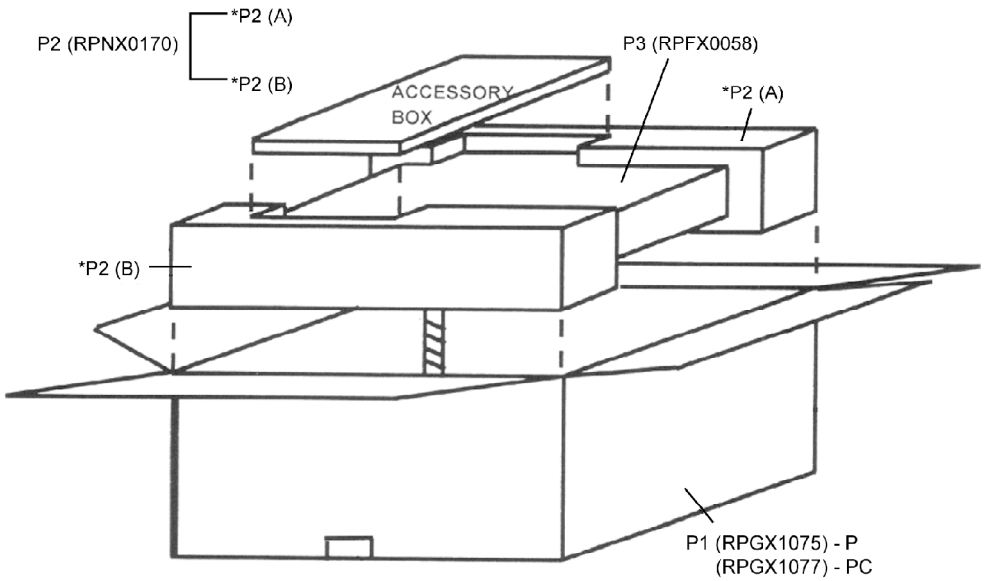
Ref. No.	Part No.	Part Name & Description	Remarks
C3002	F2G0J331A015	330P 6.3V	[M]
C3003	ECUVNC104ZFV	0.1 16V	[M]
C3004	ECUVNC104ZFV	0.1 16V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECUVNC104ZFV	0.1 16V	[M]
C3008	ECUVNC104ZFV	0.1 16V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECUVNC104ZFV	0.1 16V	[M]
C3013	ECUVNC104ZFV	0.1 16V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECUVNC104ZFV	0.1 16V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]
C3019	ERJ3GEYJ331V	330 1/16W	[M]
C3020	ECUVNC104ZFV	0.1 16V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECUVNC104ZFV	0.1 16V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECUVNC104ZFV	0.1 16V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3041	ECJ1VC1H220J	22P 50V	[M]
C3051	ECUVNC104ZFV	0.1 16V	[M]
C3052	ECUVNC104ZFV	0.1 16V	[M]
C3053	ECUVNC104ZFV	0.1 16V	[M]
C3054	ECUVNC104ZFV	0.1 16V	[M]
C3055	ECUVNC104ZFV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECUVNC104ZFV	0.1 16V	[M]
C3101	F2G0J331A015	330P 6.3V	[M]
C3102	ECUVNC104ZFV	0.1 16V	[M]
C3103	ECUVNC104ZFV	0.1 16V	[M]
C3104	ECUVNC104ZFV	0.1 16V	[M]
C3105	F1H0J1050013	1 6.3V	[M]
C3106	F1H0J1050013	1 6.3V	[M]
C3107	ECUVNC104ZFV	0.1 16V	[M]
C4201	F2G0J331A015	330P 6.3V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4211	F3F1A106A001	10 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C4213	F3F1A106A001	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]
C4216	F2G0J101A015	100P 6.3V	[M]
C4217	ECUVNC104ZFV	0.1 16V	[M]
C4219	F3F1A106A001	10 10V	[M]
C4220	F3F1A106A001	10 10V	[M]
C4222	F2G0J331A015	330P 6.3V	[M]
C5101	ECJ1VF1C104Z	0.1 16V	[M]
C5102	ECJ1VF1C104Z	0.1 16V	[M]
C5103	F3F1A106A001	10 10V	[M]
C5110	ECEV0JA470WR	47 6.3V	[M]
C5111	ECEV0JA470WR	47 6.3V	[M]
C5115	ECEV0JA470WR	47 6.3V	[M]
C5201	ECUVNC104ZFV	0.1 16V	[M]
C5202	ECUVNC104ZFV	0.1 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5221	EEE0JA330WR	33P 6.3V	[M]
C5222	ECUVNC104ZFV	0.1 16V	[M]
C5223	EEE1EA4R7SR	4.7P 25V	[M]
C5225	ECUVNC104ZFV	0.1 16V	[M]
C5226	EEE1EA4R7SR	4.7P 25V	[M]
C5231	ECUV1C104KBV	0.1 16V	[M]
C5232	ECUV1C104KBV	0.1 16V	[M]
C6201	ECUVNC104ZFV	0.1 16V	[M]
C6202	ECJ1VC1H101J	100P 50V	[M]
C6251	ECUV1C104KBV	0.1 16V	[M]
C6252	F1H0J1050013	10 6.3V	[M]
C6253	ECJ1VB1C103K	0.01 16V	[M]
C6255	EEE0JA101SP	100P 6.3V	[M]
C6261	ECUVNC104ZFV	0.1 16V	[M]
C6262	ECUVNC104ZFV	0.1 16V	[M]
C6301	ECUVNC104ZFV	0.1 16V	[M]
C6302	ECUVNC104ZFV	0.1 16V	[M]
C6311	ECUVNC104ZFV	0.1 16V	[M]
C6312	ECUVNC104ZFV	0.1 16V	[M]
C6351	ECUVNC104ZFV	0.1 16V	[M]
C6561	EEE0JA330WR	33P 6.3V	[M]
C6562	EEE0JA330WR	33P 6.3V	[M]
C6563	ECUVNC104ZFV	0.1 16V	[M]
C6564	ECUVNC104ZFV	0.1 16V	[M]
C6565	ECJ1VC1H150J	15P 50V	[M]
C6566	ECJ1VC1H150J	15P 50V	[M]
C6567	ECUVNC104ZFV	0.1 16V	[M]
C6568	ECJ1VC1H150J	15P 50V	[M]

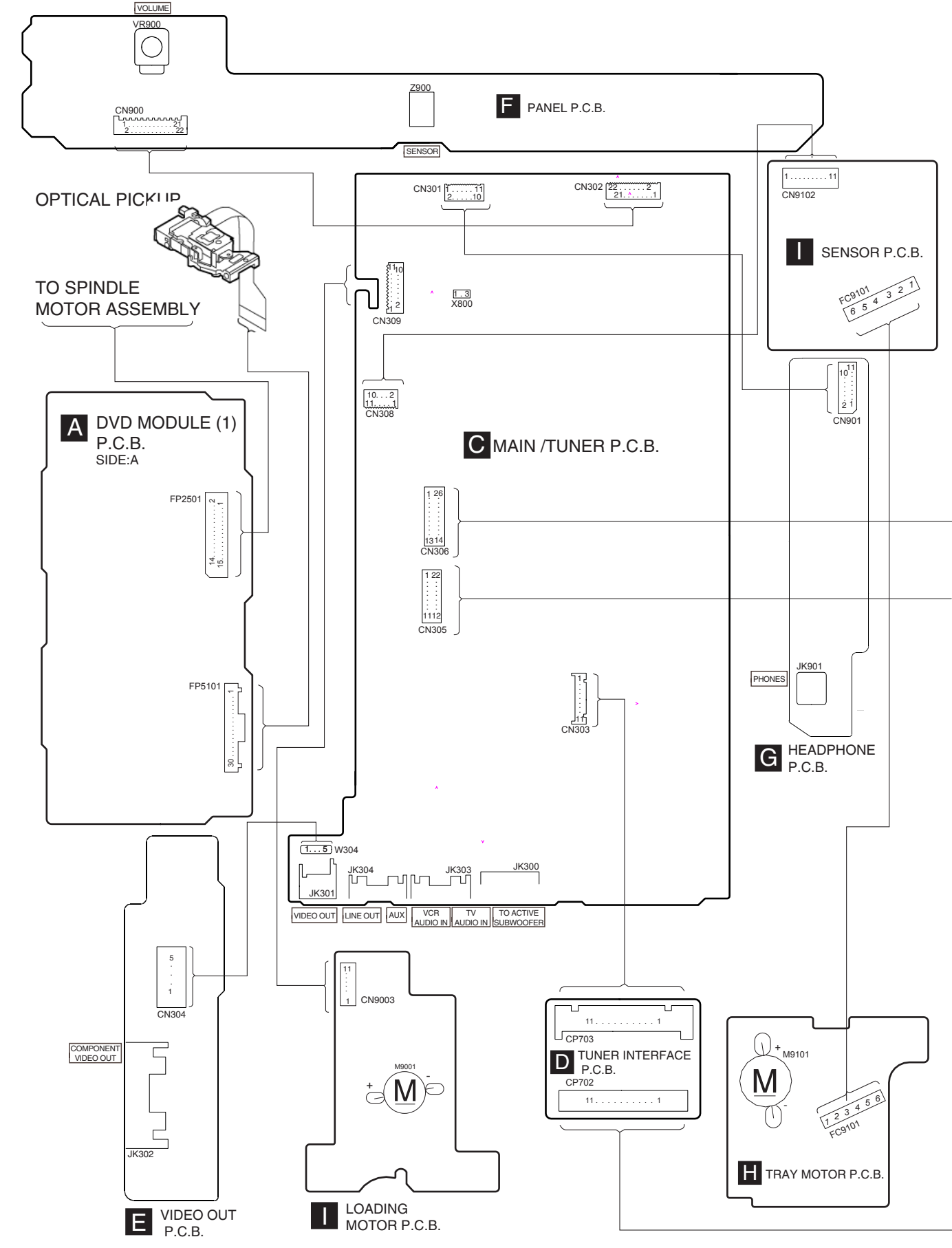
23.3. Packing Materials & Accessories Parts List

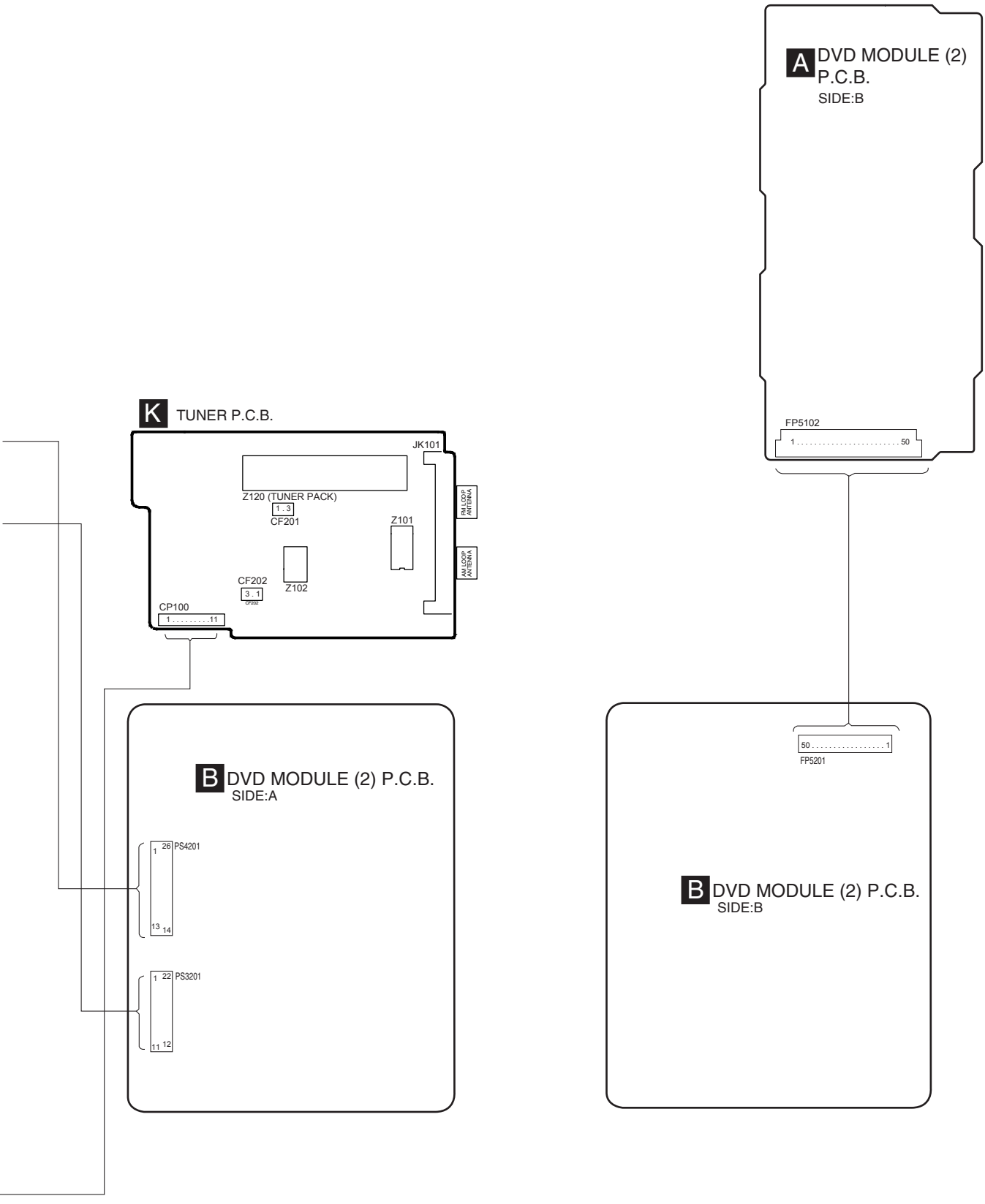
Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1075	PACKING CASE	[M]P
P1	RPGX1077	PACKING CASE	[M]PC
P2	RPNX0170	POLYFOAM	[M]
P3	RPFX0058	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7623X60	REMOTE CONTROL	[M]
A1-1	UR76EC2303B	R/C BATTERY COVER	[M]
A2	RJA0065-A	AC CORD	[M] ⚠
A3	RQT6750-2P	O/I BOOK (En)	[M]
A3	RQT6752-2C	O/I BOOK (Cf)	[M]PC
A4	RSA0006-J	FM ANTENNA	[M]
A5	RJL1P016B15A	VIDEO CABLE	[M]
A6	K1HA25HA0001	SYSTEM CABLE	[M]
A7	N1DADYY00002	AM LOOP ANTENNA	[M]

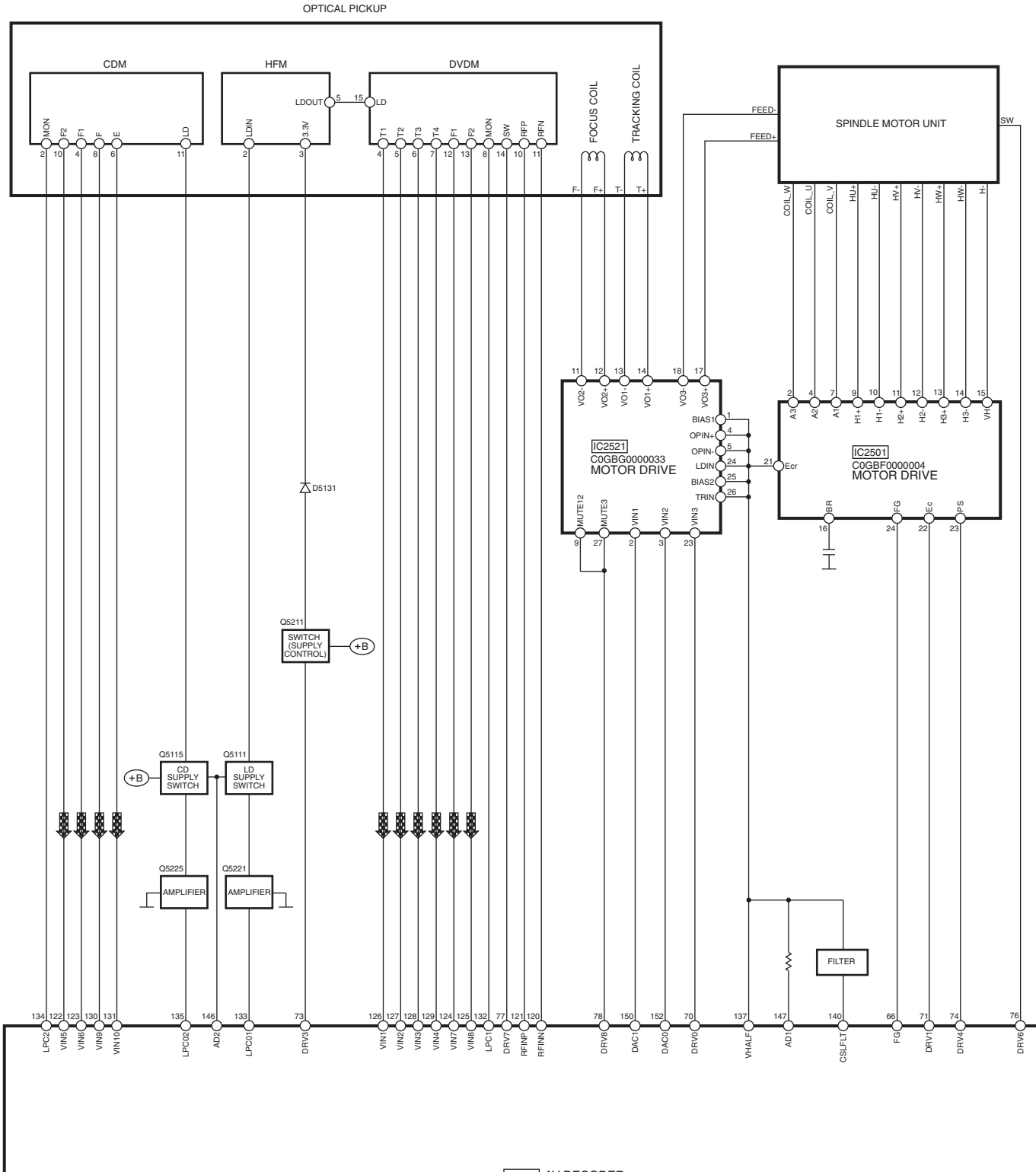
23.4. Packaging



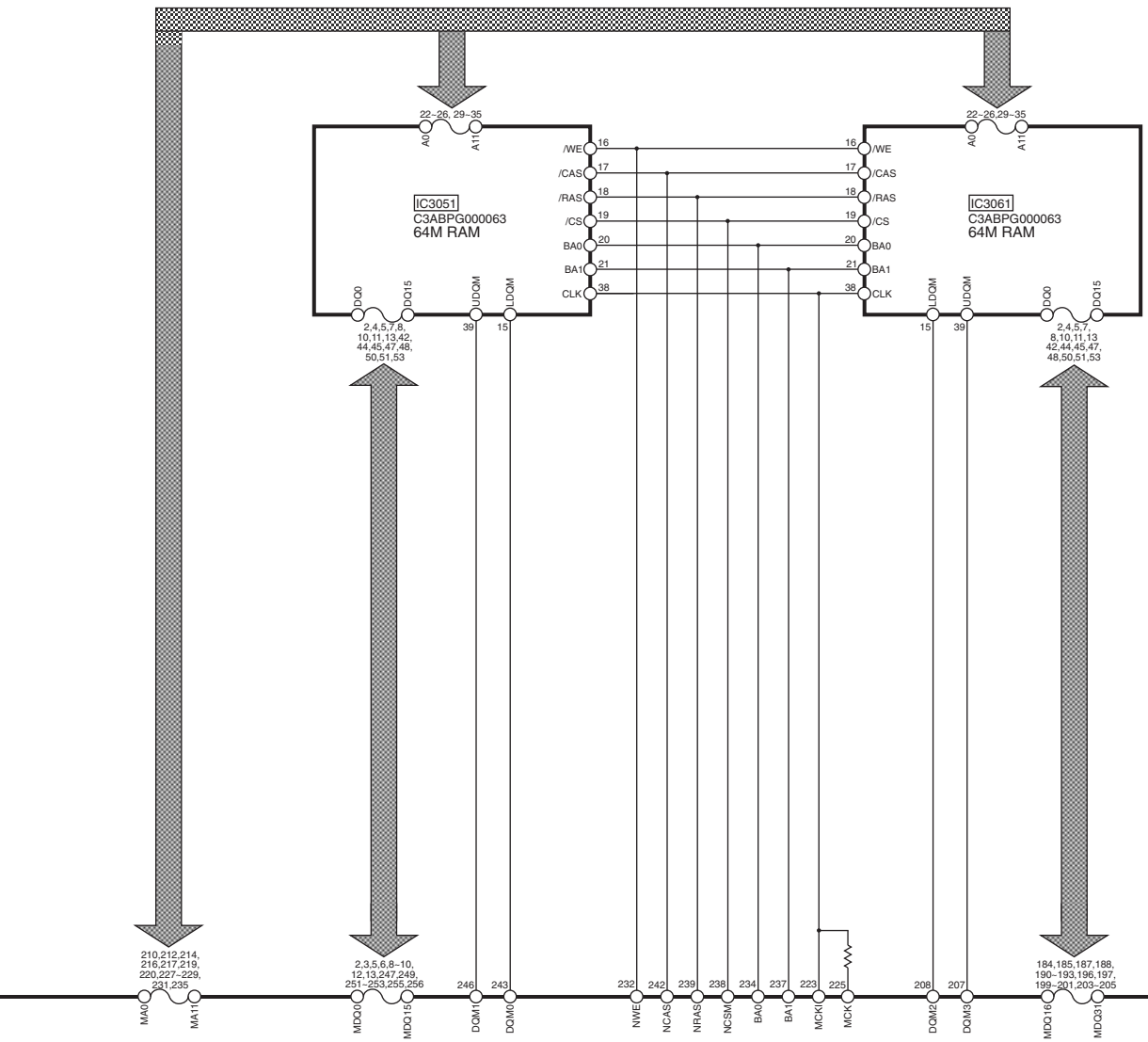
PRT0305 D/K/J/N/L


VOLUME
VR900
CN900
Z900
F PANEL P.C.B.
SENSOR
OPTICAL PICKUP
TO SPINDLE MOTOR ASSEMBLY
CN301
CN302
CN309
X800
CN308
CN9102
I SENSOR P.C.B.
FC9101
CN901
A DVD MODULE (1) P.C.B.
SIDE:A
C MAIN /TUNER P.C.B.
FP2501
CN306
CN305
FP5101
CN303
PHONES
JK901
G HEADPHONE P.C.B.
W304
JK301
JK304
JK303
JK300
VIDEO OUT
LINE OUT
AUX
VCR AUDIO IN
TV AUDIO IN
TO ACTIVE SUBWOOFER
CN304
COMPONENT VIDEO OUT
JK302
E VIDEO OUT P.C.B.
CN9003
M9001
I LOADING MOTOR P.C.B.
CP703
D TUNER INTERFACE P.C.B.
CP702
M9101
FC9101
H TRAY MOTOR P.C.B.

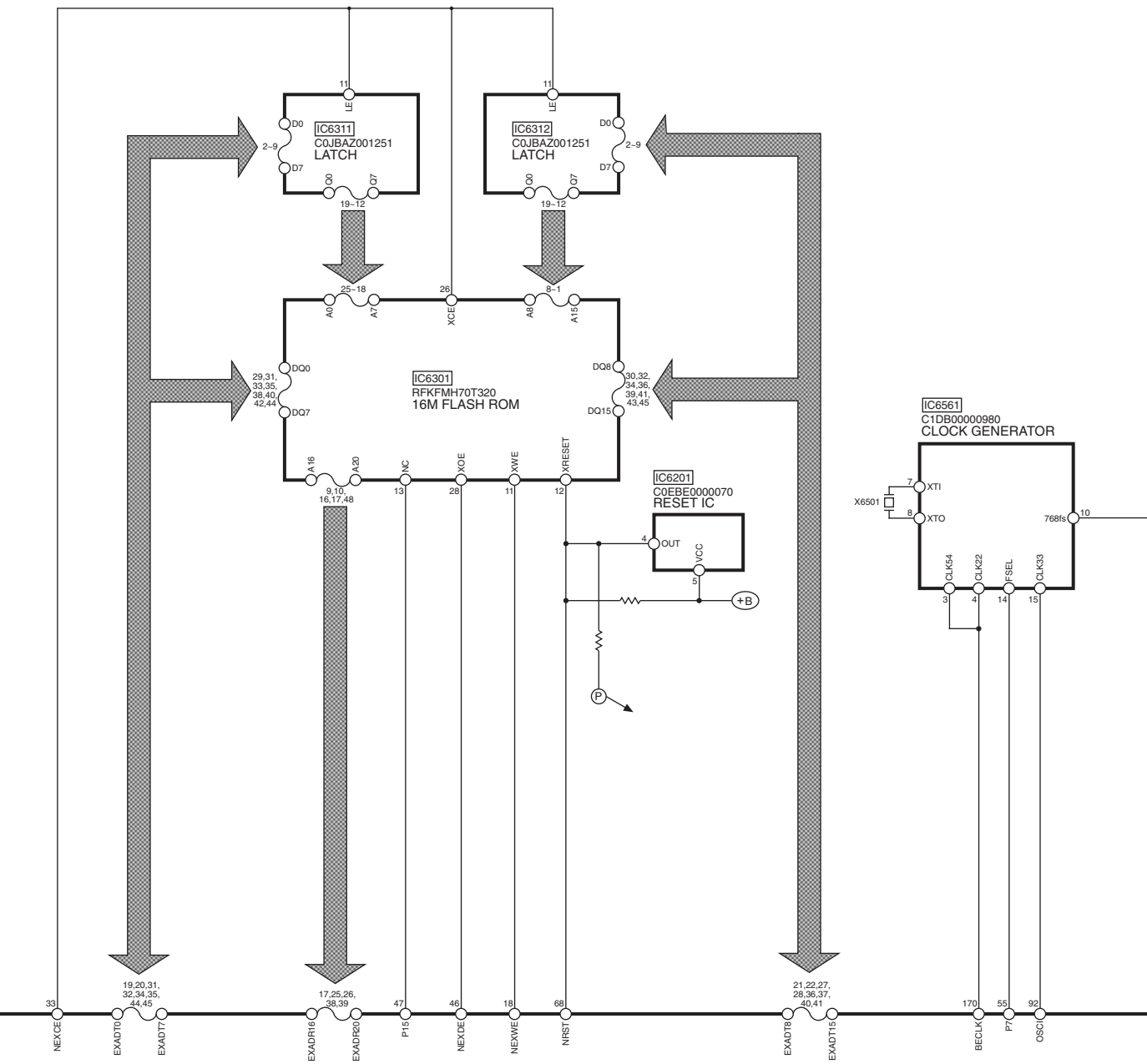

A DVD MODULE (2) P.C.B.
SIDE:B
FP5102
1 50
K TUNER P.C.B.
JK101
Z120 (TUNER PACK)
1 . 3
CF201
Z101
FM LOOP ANTENNA
AM LOOP ANTENNA
CF202
3 . 1
Z102
CP100
1 11
50 1
FP5201
B DVD MODULE (2) P.C.B.
SIDE:A
PS4201
1
26
13
14
PS3201
1
22
11
12
B DVD MODULE (2) P.C.B.
SIDE:B



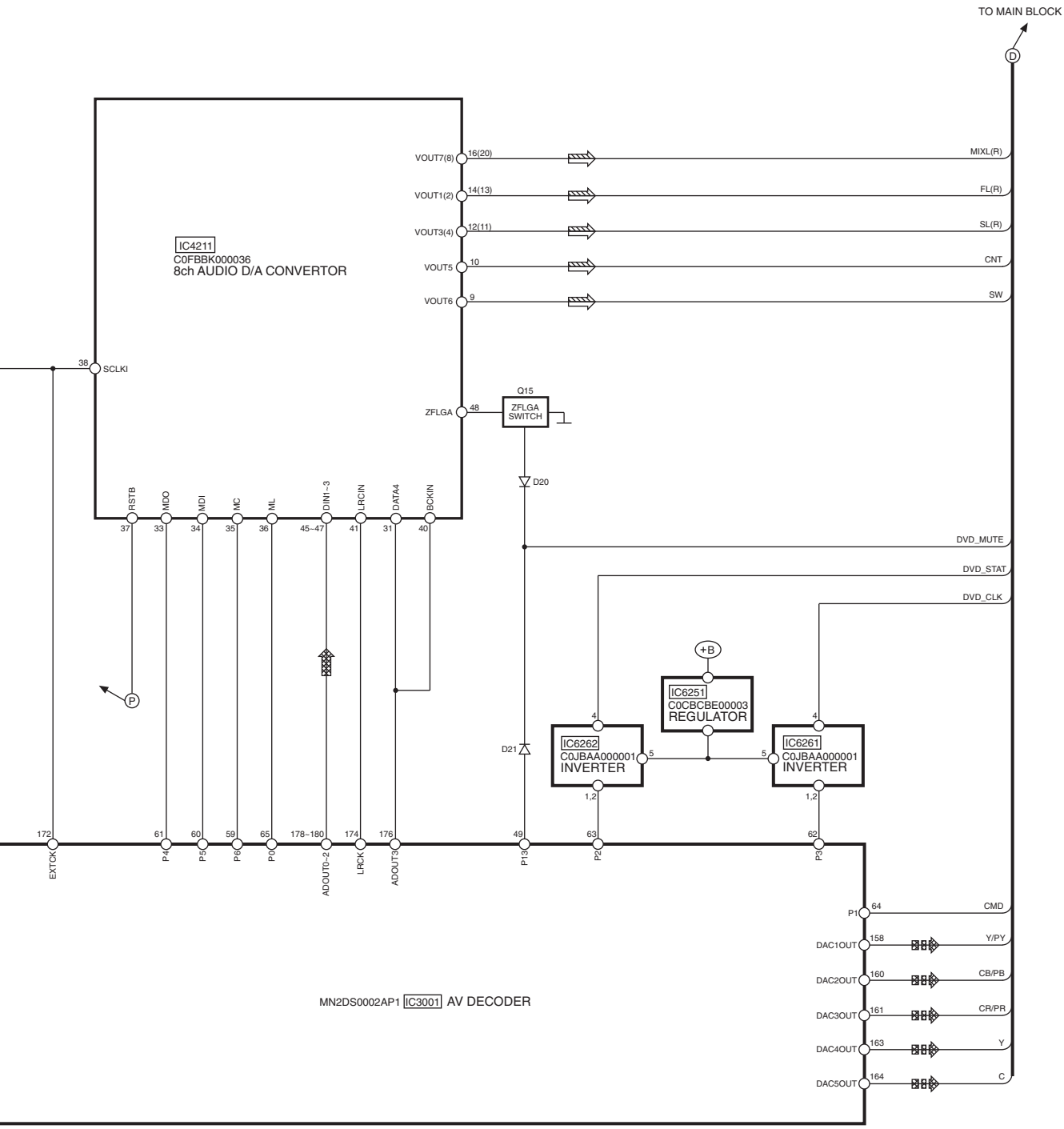
MN2DS0002AP1 IC3001 AV DECODER

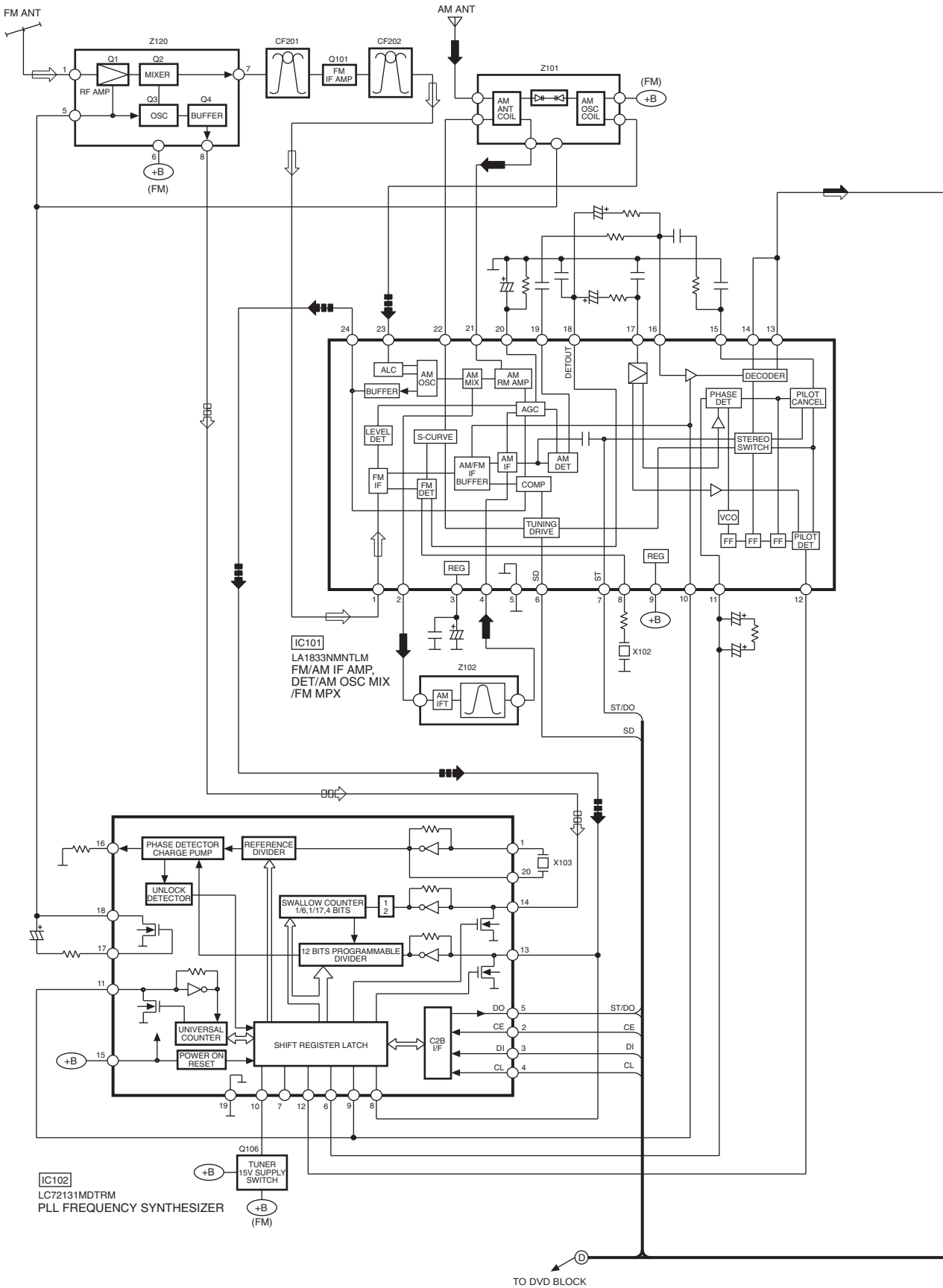


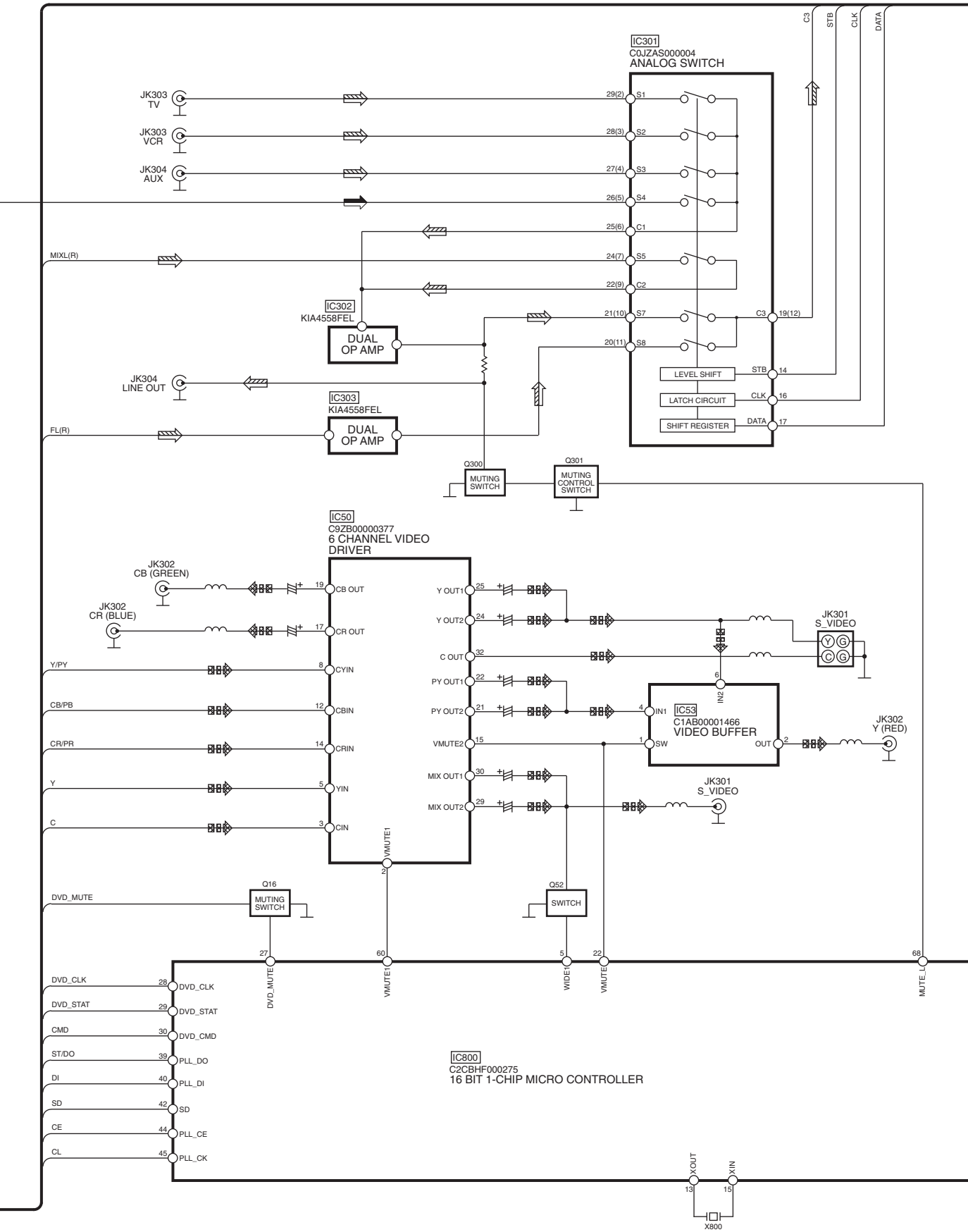
MN2DS0002AP1 IC3001 AV DECODER

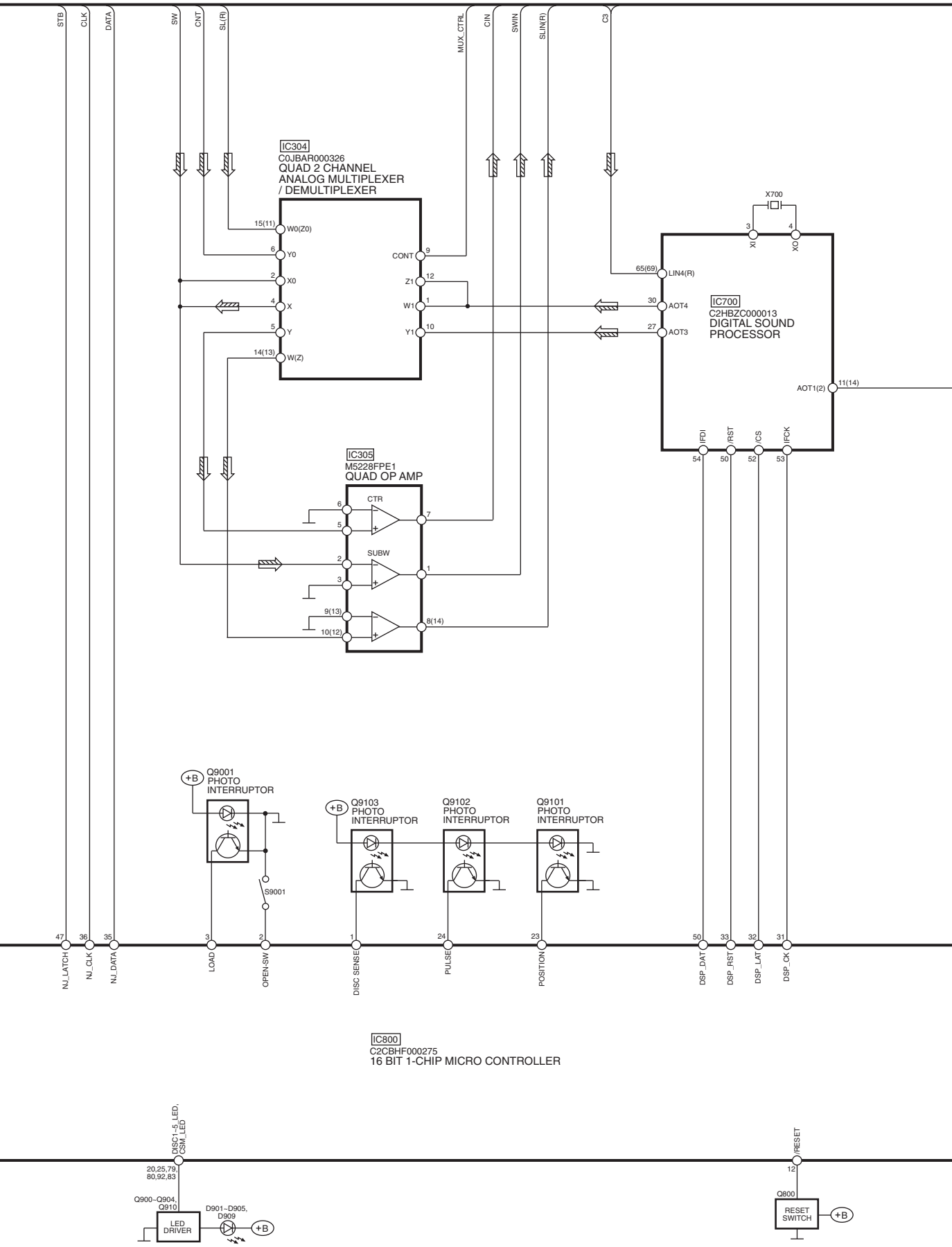


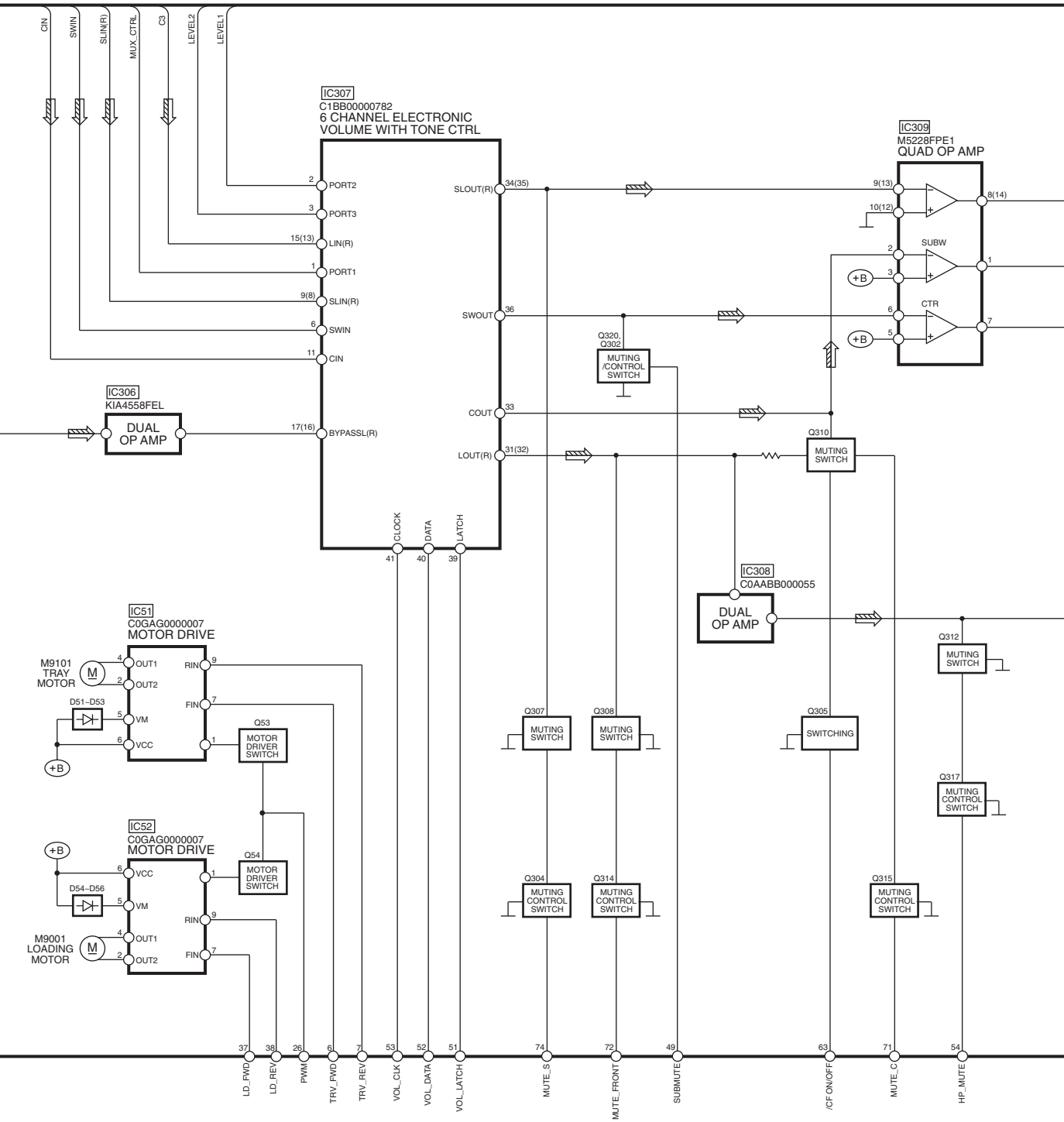
MN2DS0002AP1 IC3001 AV DECODER


TO MAIN BLOCK
D
IC4211
C0FBBK000036
8ch AUDIO D/A CONVERTOR
VOUT7(8)
16(20)
MIXL(R)
VOUT1(2)
14(13)
FL(R)
VOUT3(4)
12(11)
SL(R)
VOUT5
10
CNT
VOUT6
9
SW
38
SCLKI
ZFLGA
48
Q15
ZFLGA SWITCH
D20
RSTB
MDO
MDI
MC
ML
DIN1~3
LRCIN
DATA4
BCKIN
37
33
34
35
36
45~47
41
31
40
DVD_MUTE
DVD_STAT
DVD_CLK
+B
IC6251
C0CBCBE00003
REGULATOR
IC6262
C0JBAA000001
INVERTER
IC6261
C0JBAA000001
INVERTER
D21
4
5
1,2
P
172
61
60
59
65
178~180
174
176
49
63
62
EXTCK
P4
P5
P6
P0
ADOUT0~2
LRCK
ADOUT3
P13
P2
P3
P1
64
CMD
DAC1OUT
158
Y/PY
DAC2OUT
160
CB/PB
DAC3OUT
161
CR/PR
DAC4OUT
163
Y
DAC5OUT
164
C
MN2DS0002AP1 IC3001 AV DECODER

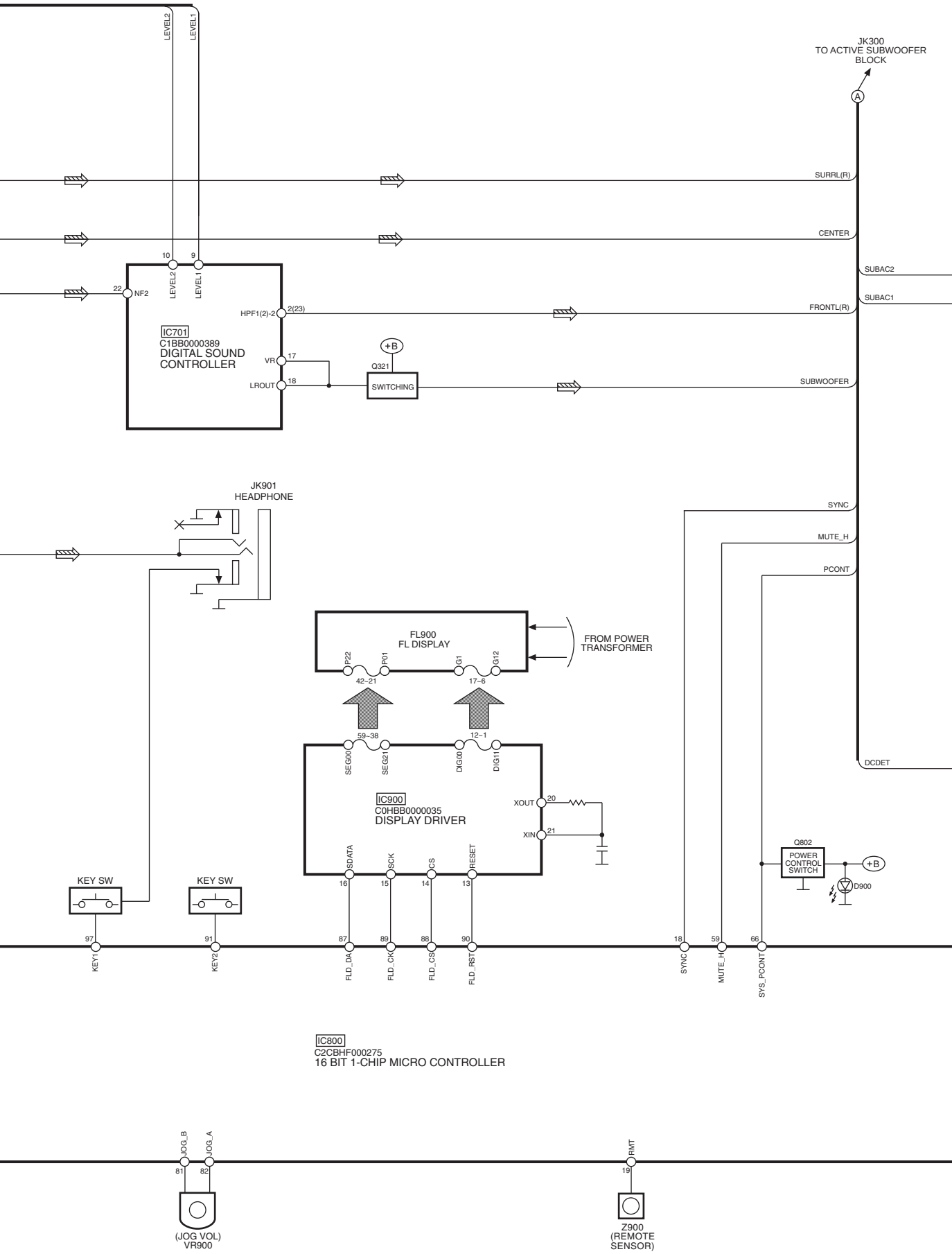

FM ANT
AM ANT
Z120
Q1
Q2
MIXER
RF AMP
Q3
OSC
Q4
BUFFER
CF201
Q101
FM IF AMP
CF202
Z101
AM ANT COIL
AM OSC COIL
(FM)
+B
ALC
AM OSC
BUFFER
AM MIX
AM RM AMP
DETOUT
AGC
LEVEL DET
S-CURVE
AM IF
AM DET
FM IF
FM DET
AM/FM IF BUFFER
COMP
TUNING DRIVE
DECODER
PHASE DET
PILOT CANCEL
STEREO SWITCH
VCO
FF
PILOT DET
REG
SD
ST
X102
IC101
LA1833NMNTLM
FM/AM IF AMP, DET/AM OSC MIX /FM MPX
Z102
AM IFT
ST/DO
SD
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
POWER ON RESET
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
Q106
TUNER 15V SUPPLY SWITCH
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
TO DVD BLOCK


IC301
C0JZAS000004
ANALOG SWITCH
C3
STB
CLK
DATA
JK303 TV
JK303 VCR
JK304 AUX
MIXL(R)
29(2) S1
28(3) S2
27(4) S3
26(5) S4
25(6) C1
24(7) S5
22(9) C2
21(10) S7
20(11) S8
C3 19(12)
LEVEL SHIFT
LATCH CIRCUIT
SHIFT REGISTER
STB 14
CLK 16
DATA 17
IC302
KIA4558FEL
DUAL OP AMP
JK304 LINE OUT
IC303
KIA4558FEL
DUAL OP AMP
FL(R)
Q300
MUTING SWITCH
Q301
MUTING CONTROL SWITCH
IC50
C9ZB00000377
6 CHANNEL VIDEO DRIVER
JK302 CB (GREEN)
JK302 CR (BLUE)
19 CB OUT
17 CR OUT
Y/PY
8 CYIN
CB/PB
12 CBIN
CR/PR
14 CRIN
Y
5 YIN
C
3 CIN
Y OUT1 25
Y OUT2 24
C OUT 32
PY OUT1 22
PY OUT2 21
VMUTE2 15
MIX OUT1 30
MIX OUT2 29
VMUTE1 9
JK301 S_VIDEO
IC53
C1AB00001466
VIDEO BUFFER
IN1 4
IN2 6
SW 1
OUT 2
JK302 Y (RED)
JK301 S_VIDEO
Q16
MUTING SWITCH
Q52
SWITCH
DVD_MUTE
27
60
5
22
68
DVD_MUTE
VMUTE1
WIDE1
VMUTE
MUTE_L
DVD_CLK 28 DVD_CLK
DVD_STAT 29 DVD_STAT
CMD 30 DVD_CMD
ST/DO 39 PLL_DO
DI 40 PLL_DI
SD 42 SD
CE 44 PLL_CE
CL 45 PLL_CK
IC800
C2CBHF000275
16 BIT 1-CHIP MICRO CONTROLLER
XOUT 13
XIN 15
X800


STB
CLK
DATA
SW
CNT
SL(R)
MUX_CTRL
CIN
SWIN
SLIN(R)
C3
IC304
C0JBAR000326
QUAD 2 CHANNEL
ANALOG MULTIPLEXER
/ DEMULTIPLEXER
15(11) W0(Z0)
6 Y0
2 X0
4 X
5 Y
14(13) W(Z)
CONT 9
Z1 12
W1 1
Y1 10
X700
3 XI
4 XO
65(69) LIN4(R)
30 AOT4
27 AOT3
IC700
C2HBZC000013
DIGITAL SOUND
PROCESSOR
AOT1(2) 11(14)
IFDI 54
RST 50
CS 52
IFCK 53
IC305
M5228FPE1
QUAD OP AMP
CTR
SUBW
+B
Q9001
PHOTO
INTERRUPTOR
S9001
Q9103
PHOTO
INTERRUPTOR
Q9102
PHOTO
INTERRUPTOR
Q9101
PHOTO
INTERRUPTOR
47 NJ_LATCH
36 NJ_CLK
35 NJ_DATA
3 LOAD
2 OPEN-SW
1 DISC SENSE
24 PULSE
23 POSITION
50 DSP_DAT
33 DSP_RST
32 DSP_LAT
31 DSP_CK
IC800
C2CBHF000275
16 BIT 1-CHIP MICRO CONTROLLER
DISC1-5_LED,
CSW_LED
20,25,79,
80,92,83
Q900–Q904,
Q910
LED
DRIVER
D901–D905,
D909
+B
RESET
12
Q800
RESET
SWITCH
+B



IC800
C2CBHF000275
16 BIT 1-CHIP MICRO CONTROLLER

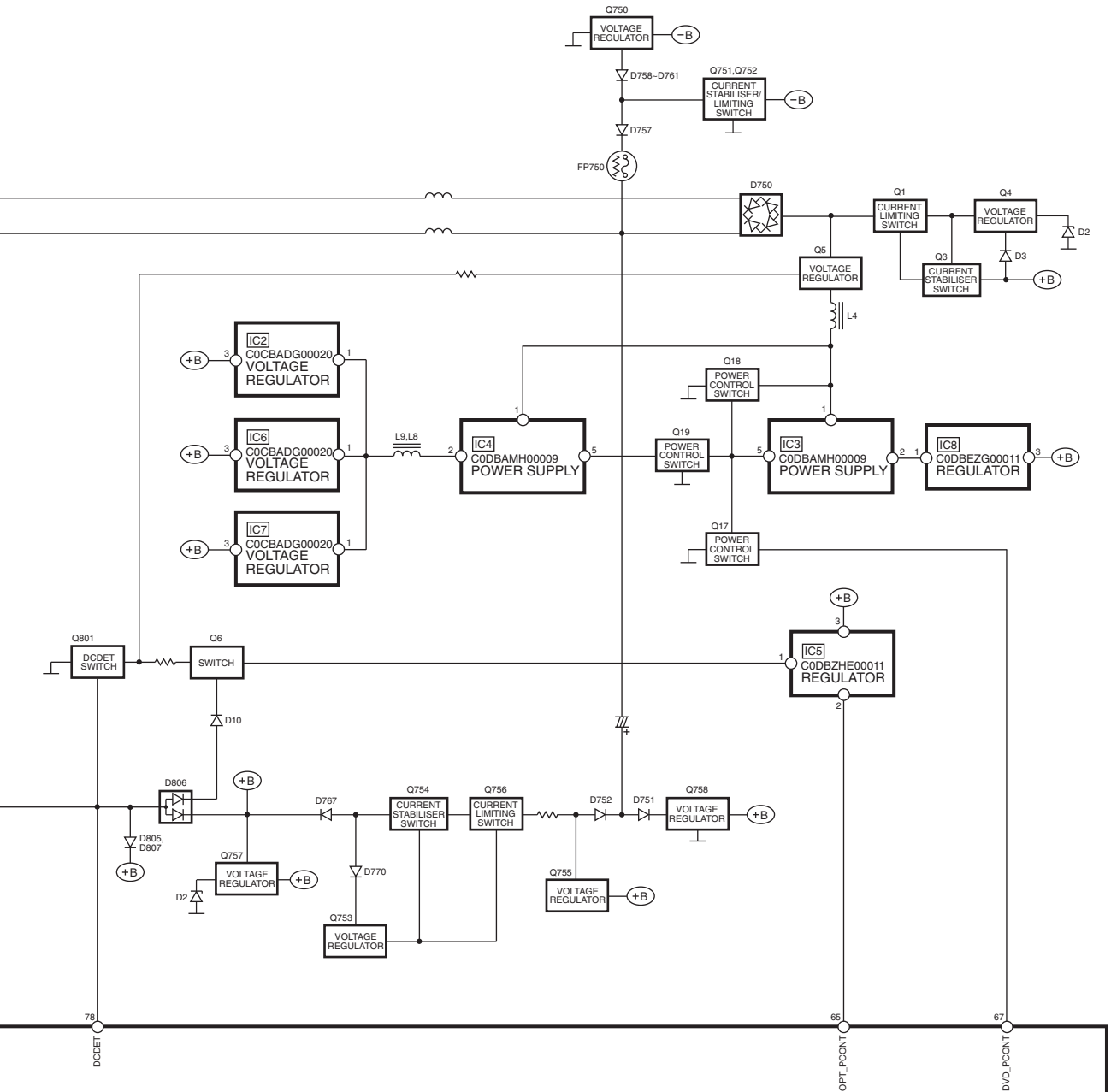

LEVEL2
LEVEL1
JK300
TO ACTIVE SUBWOOFER
BLOCK
A
SURRL(R)
CENTER
SUBAC2
SUBAC1
FRONTL(R)
SUBWOOFER
10
9
22
NF2
LEVEL2
LEVEL1
HPF1(2)-2
2(23)
IC701
C1BB0000389
DIGITAL SOUND
CONTROLLER
VR
17
LROUT
18
+B
Q321
SWITCHING
JK901
HEADPHONE
SYNC
MUTE_H
PCONT
DCDET
FL900
FL DISPLAY
FROM POWER
TRANSFORMER
P22
P01
G1
G12
42–21
17–6
59–38
12–1
SEG00
SEG21
DIG00
DIG11
IC900
C0HBB0000035
DISPLAY DRIVER
XOUT
20
XIN
21
SDATA
SCK
CS
RESET
16
15
14
13
Q802
POWER
CONTROL
SWITCH
+B
D900
KEY SW
KEY SW
97
91
87
89
88
90
18
59
66
KEY1
KEY2
FLD_DA
FLD_CK
FLD_CS
FLD_RST
SYNC
MUTE_H
SYS_PCONT
IC800
C2CBHF000275
16 BIT 1-CHIP MICRO CONTROLLER
JOG_B
JOG_A
81
82
(JOG VOL)
VR900
RMT
19
Z900
(REMOTE
SENSOR)

SIGNAL LINES

: MAIN SIGNAL LINE
: FM SIGNAL LINE
: FM OSC SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE
: FM /AM SIGNAL LINE
: DVD AUDIO SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: CD-DA (AUDIO /VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

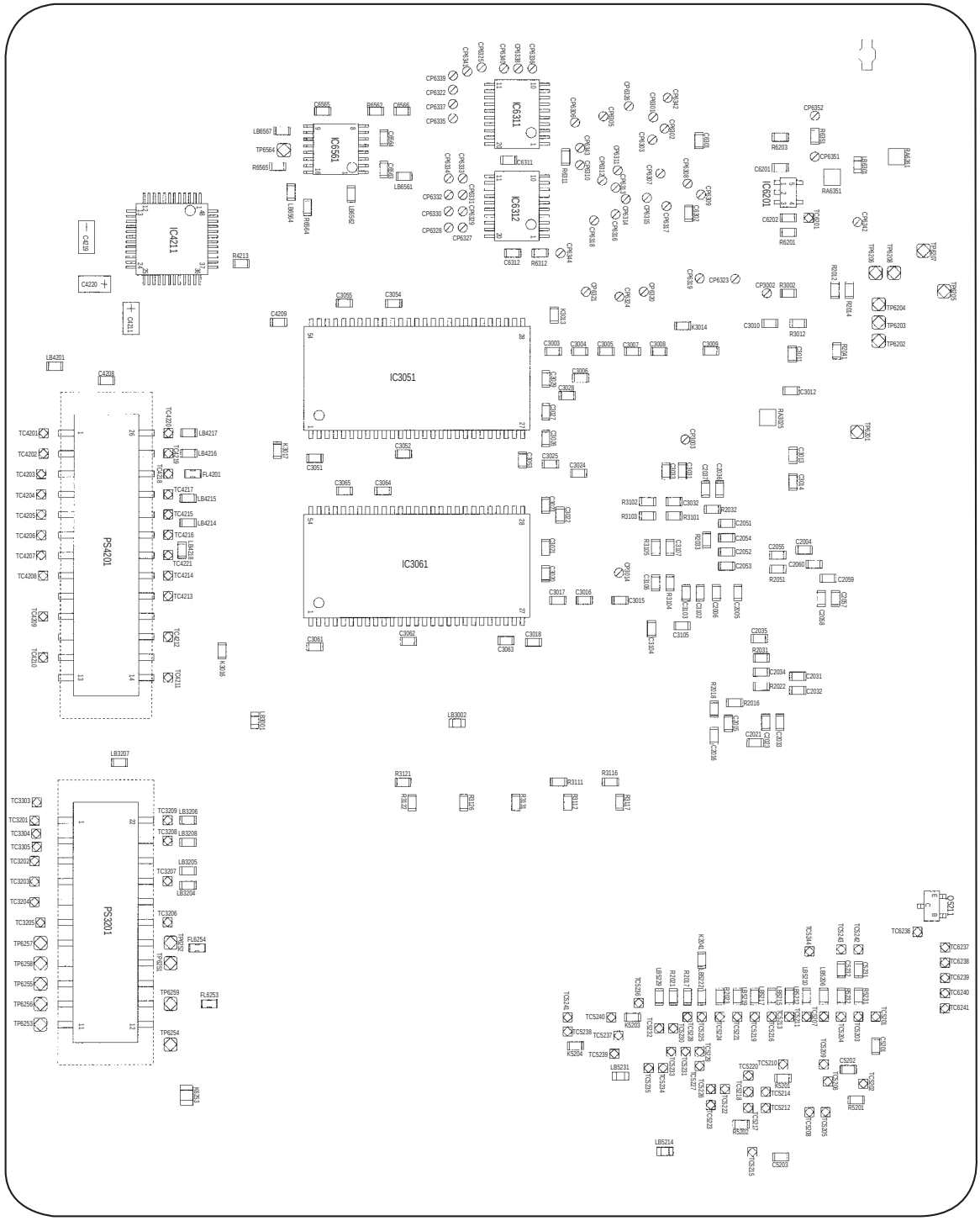


IC800
C2CBHF000275
16 BIT 1-CHIP MICRO CONTROLLER

A B C D E F G

1 2 3 4 5 6 7 8 9

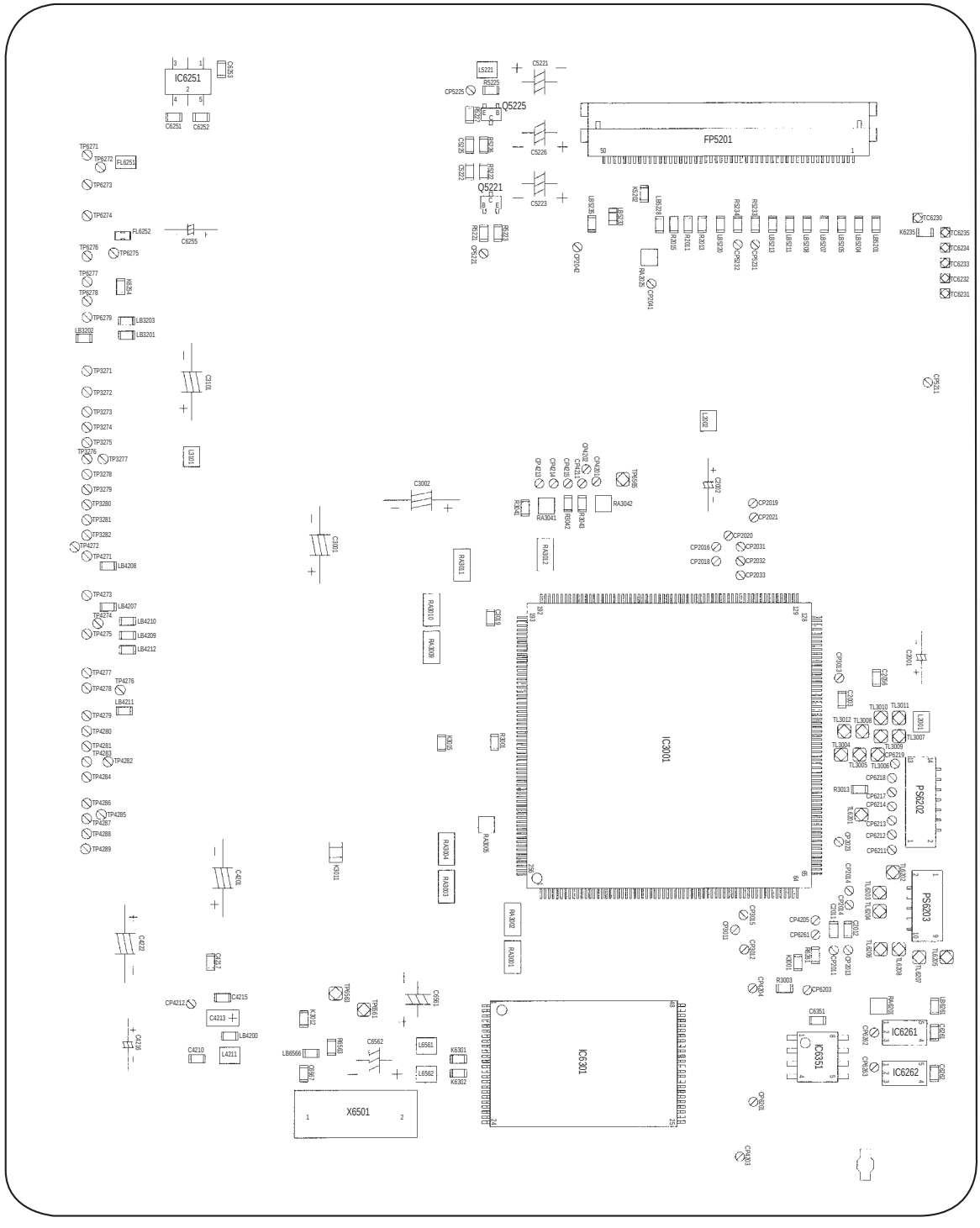
B DVD MODULE(2) P.C.B (REPX0386A) (SIDE:A)



A B C D E F G

1 2 3 4 5 6 7 8 9

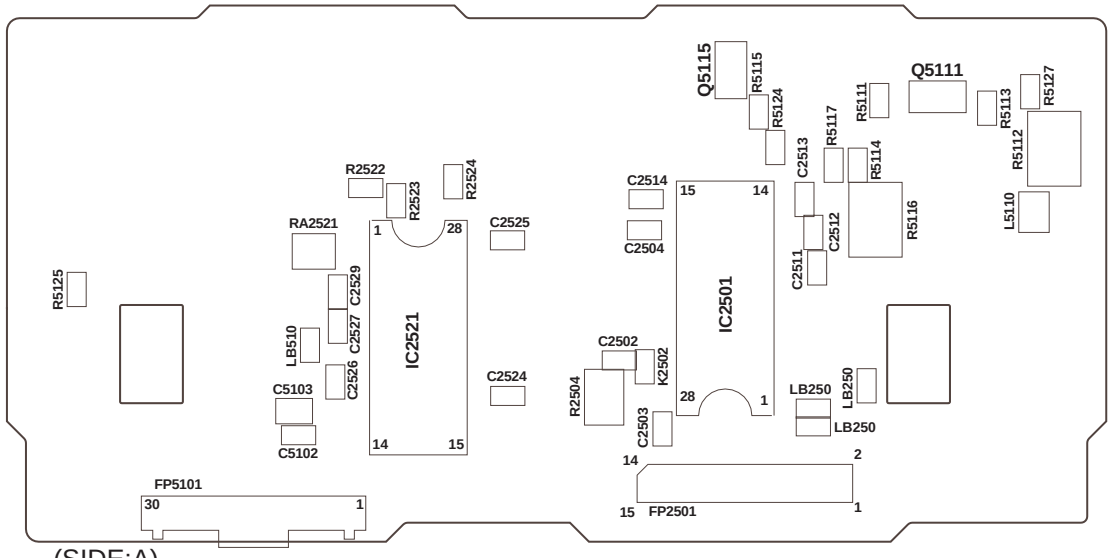
B DVD MODULE(2) P.C.B (REPX0386A) (SIDE:B)



A B C D E F G

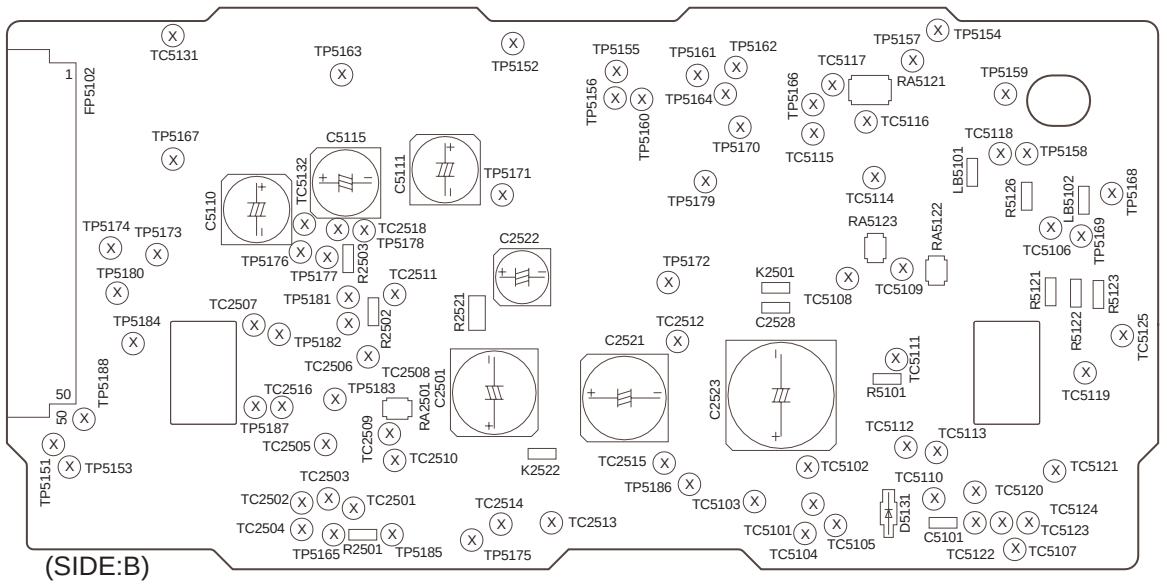
1 2 3 4 5 6 7 8 9

A DVD MODULE (1) P.C.B (REP3451A-N)



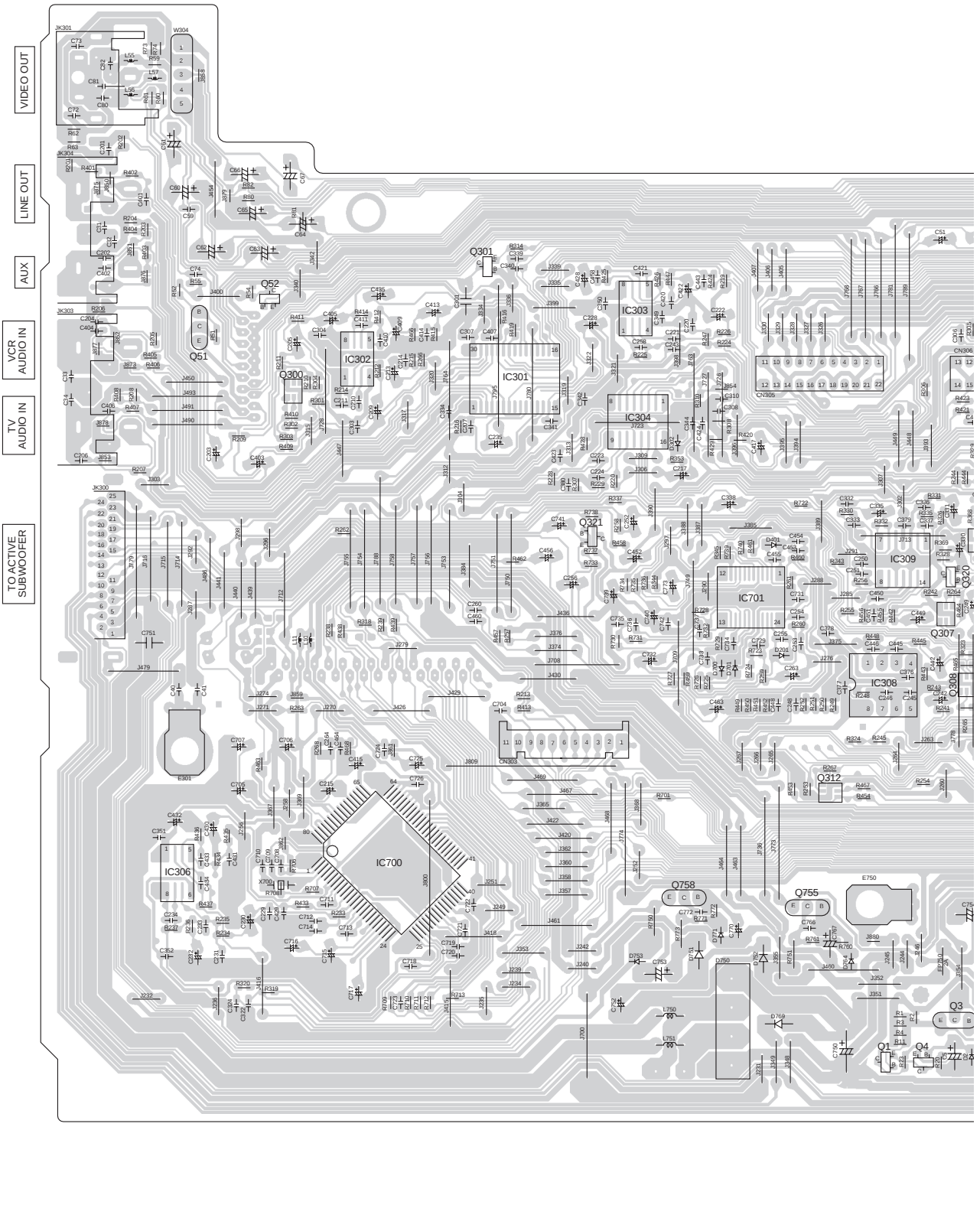
(SIDE:A)

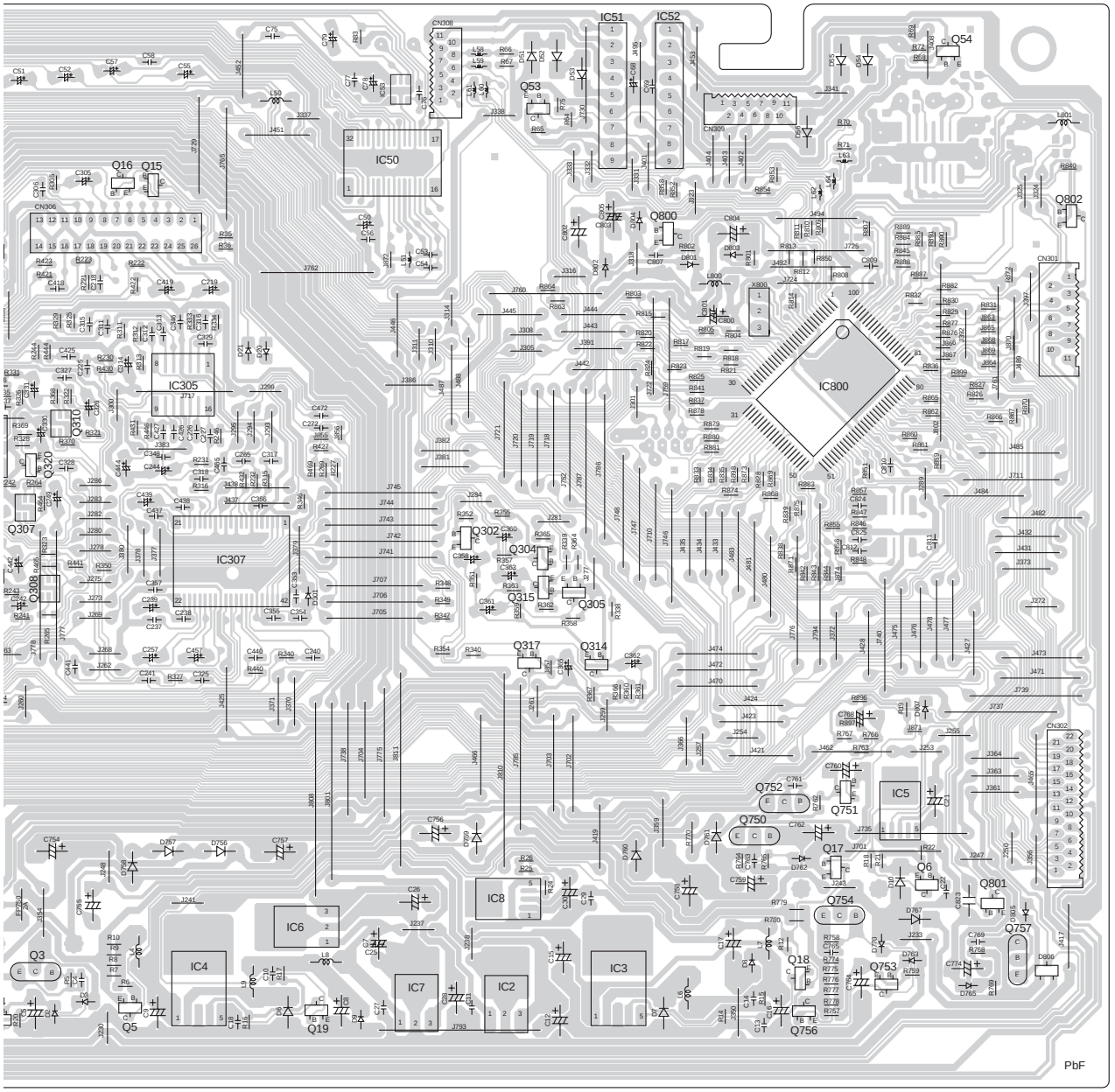
A DVD MODULE (1) P.C.B (REP3451A-N)



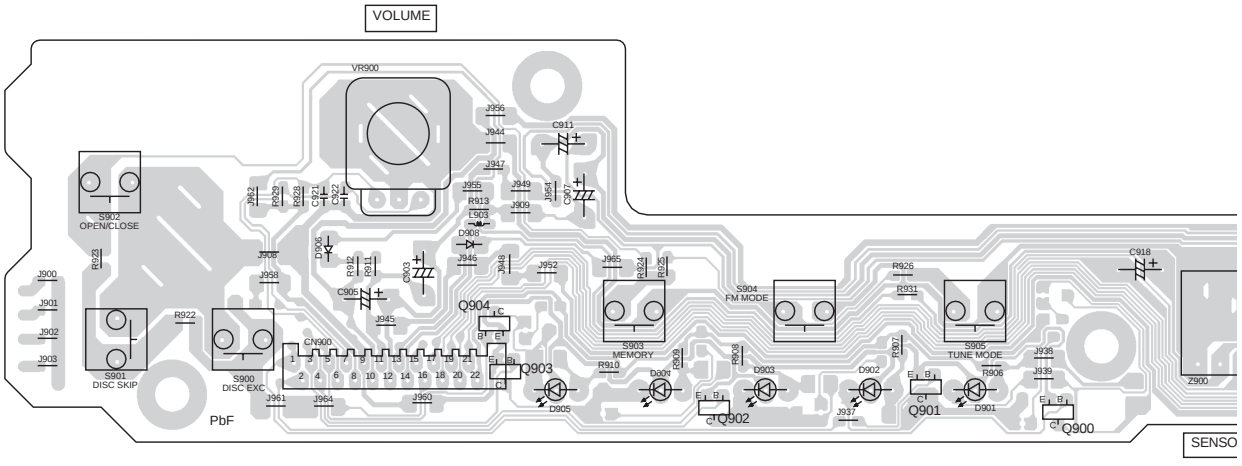
(SIDE:B)

C MAIN / TUNER P.C.B (REPX0334G)

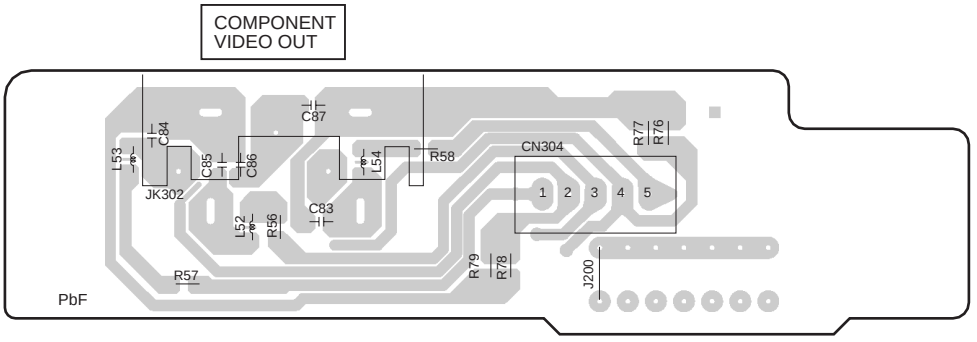



IC51
IC52
IC50
IC305
IC307
IC800
IC8
IC6
IC4
IC7
IC2
IC3
IC5
Q53
Q54
Q16
Q15
Q800
Q802
Q310
Q320
Q307
Q308
Q302
Q304
Q315
Q305
Q317
Q314
Q752
Q751
Q750
Q17
Q754
Q6
Q801
Q757
Q3
Q5
Q19
Q18
Q753
Q756
PbF

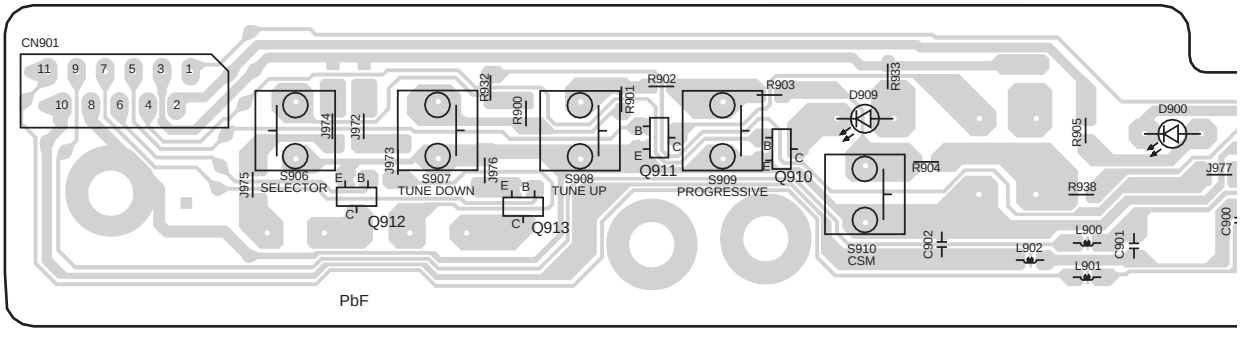
F PANEL P.C.B (REPX0333E)



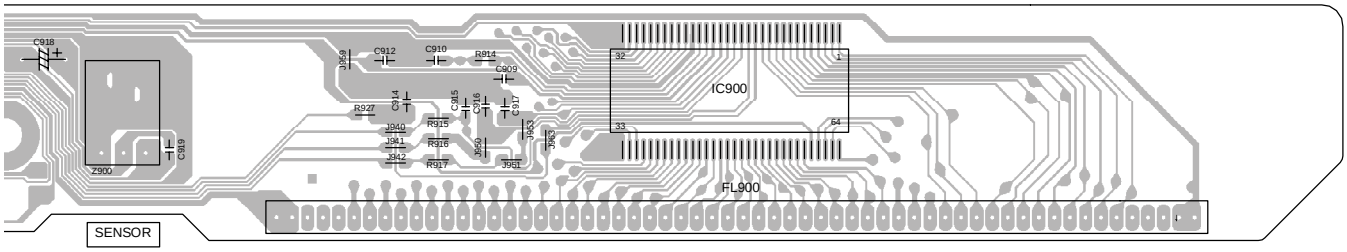
E VIDEO OUT P.C.B (REPX0334G)

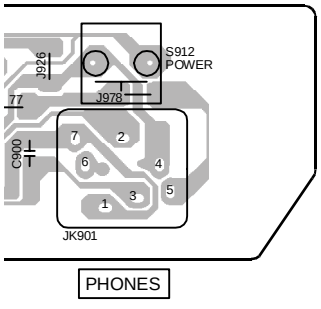


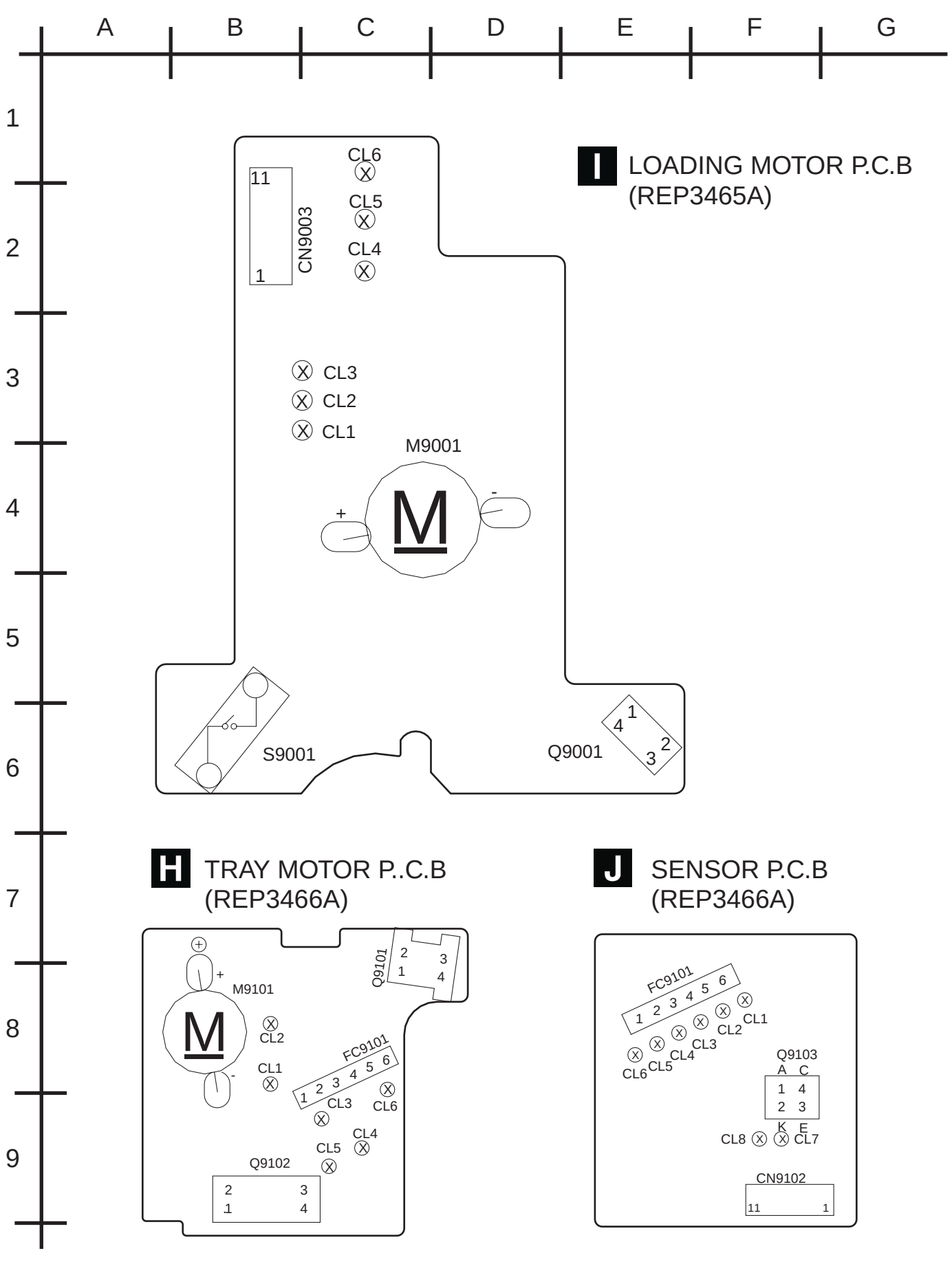
G HEADPHONE P.C.B (REPX0333E)



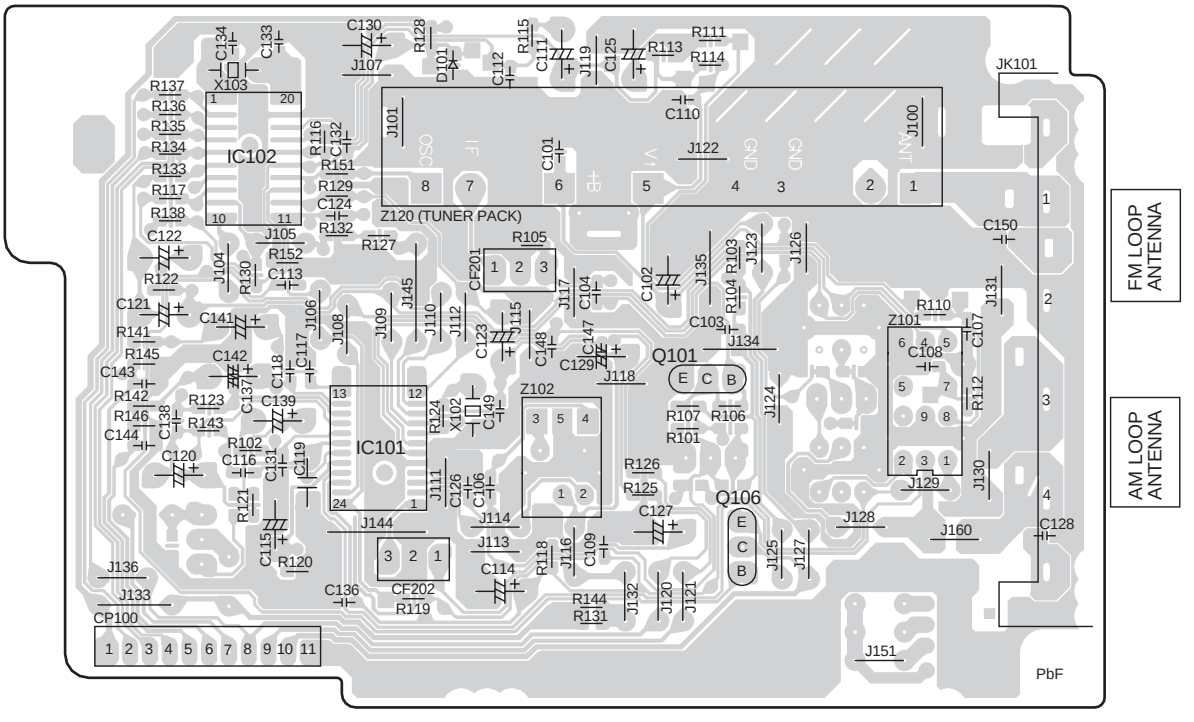
G H I J K L M


C918
C919
Z900
J959
C912
C910
R914
C909
R927
C914
C915
C916
C917
J940
R915
J941
R916
J942
R917
J950
J951
J953
J963
IC900
32
1
33
64
FL900
SENSOR

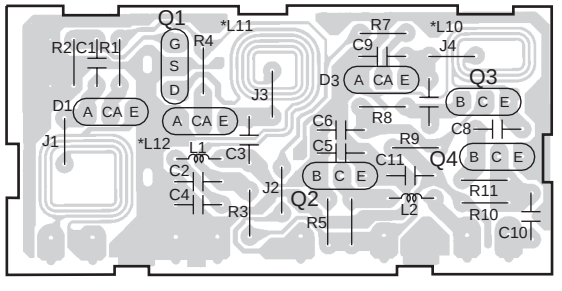

J926
S912
POWER
J978
77
C900
7
2
6
4
1
3
5
JK901
PHONES


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
I LOADING MOTOR P.C.B
(REP3465A)
CL6
CL5
CL4
11
CN9003
1
CL3
CL2
CL1
M9001
+
M
-
S9001
Q9001
4
1
3
2
H TRAY MOTOR P..C.B
(REP3466A)
+
M9101
M
-
CL2
CL1
Q9101
2
1
3
4
FC9101
1 2 3 4 5 6
CL3
CL6
CL4
CL5
Q9102
2
1
3
4
J SENSOR P.C.B
(REP3466A)
FC9101
1 2 3 4 5 6
CL1
CL2
CL3
CL4
CL5
CL6
Q9103
A C
1 4
2 3
K E
CL8
CL7
CN9102
11
1

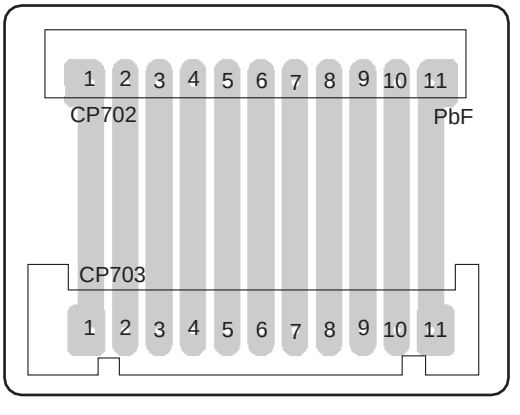
K TUNER P.C.B (REPX0373A)



N TUNER PACK (REP1999B)



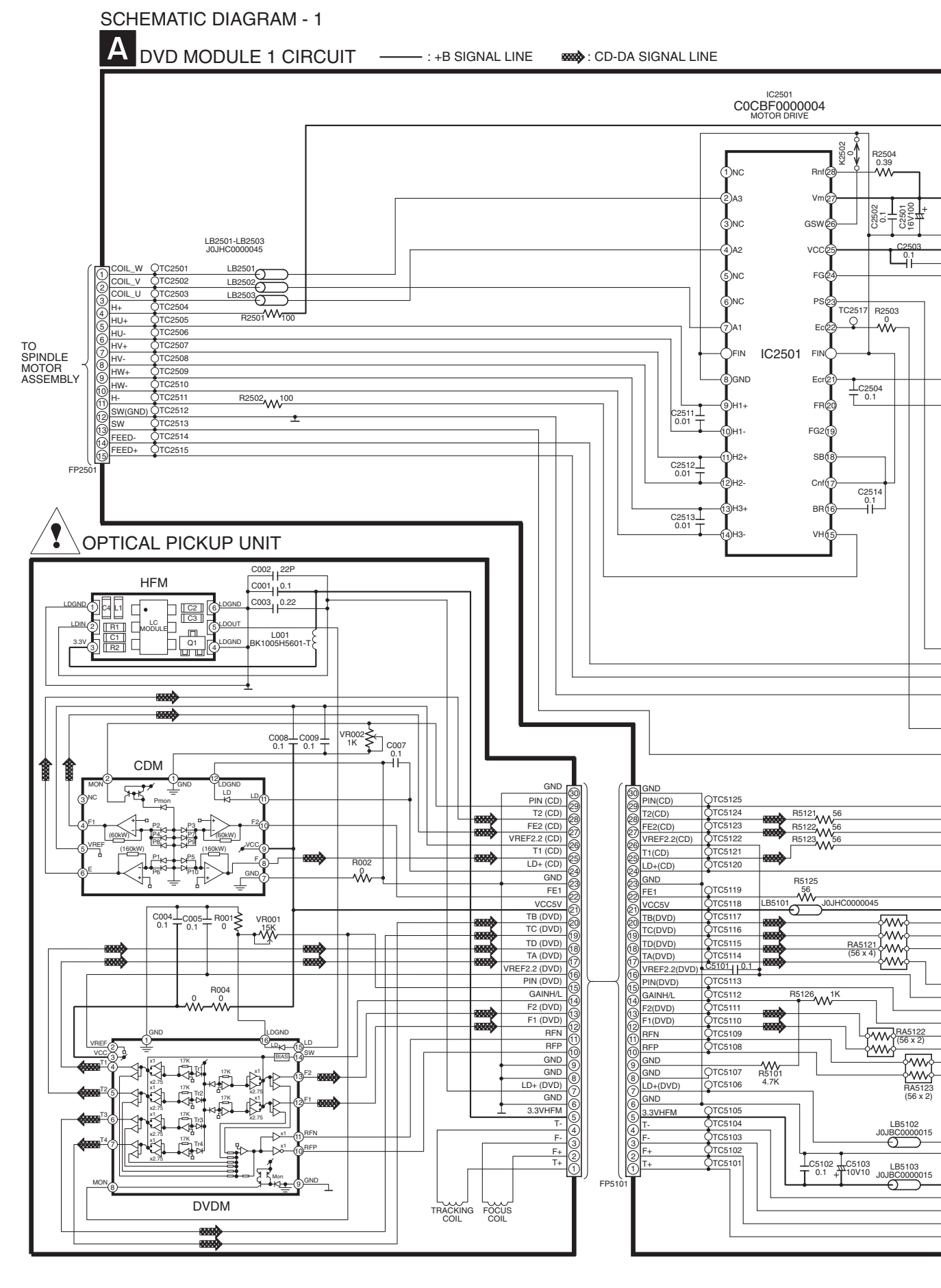
D TUNER INTERFACE P.C.B (REPX0334G)



SCHEMATIC DIAGRAM - 1

A DVD MODULE 1 CIRCUIT

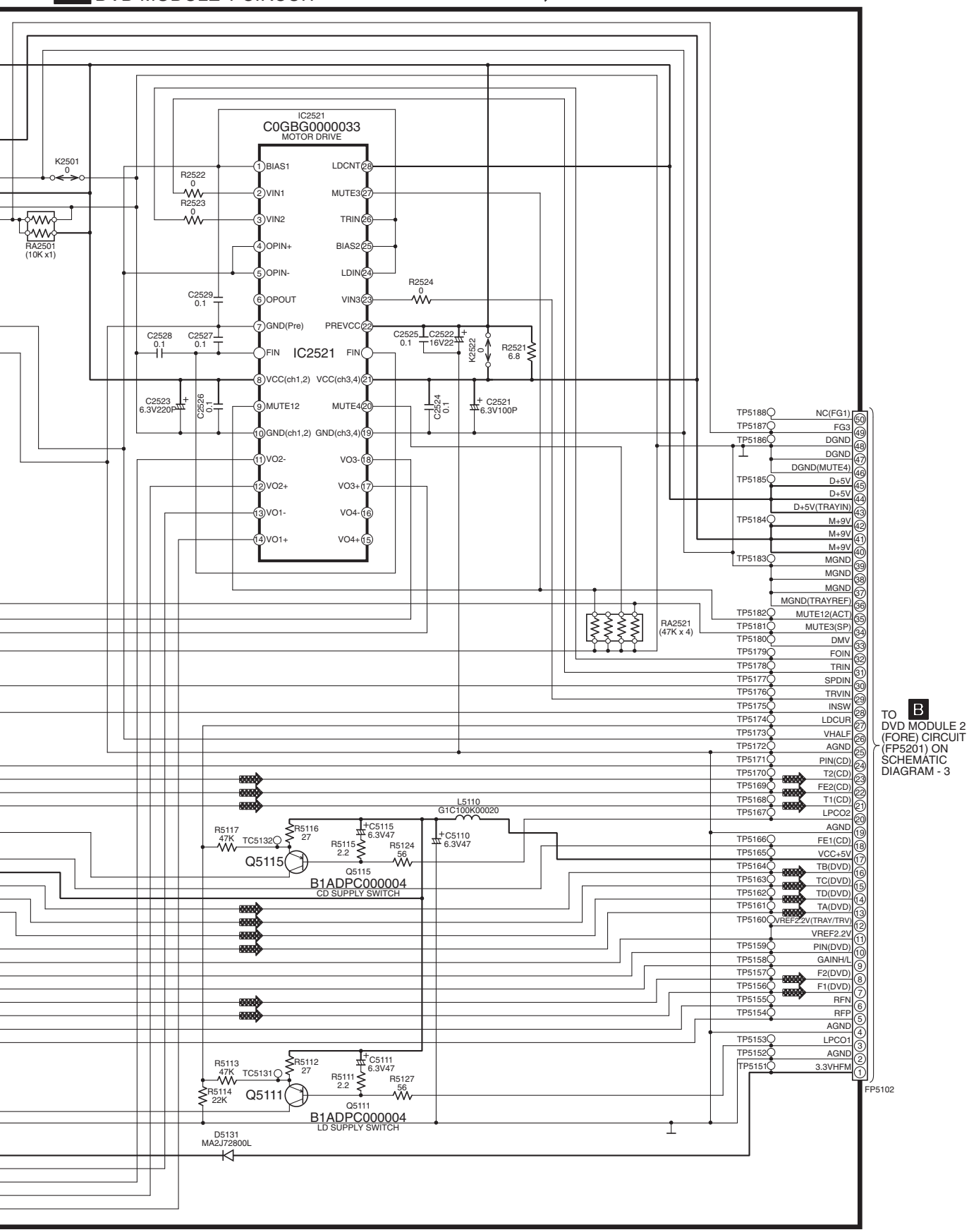
——— : +B SIGNAL LINE ⇒ : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM - 2

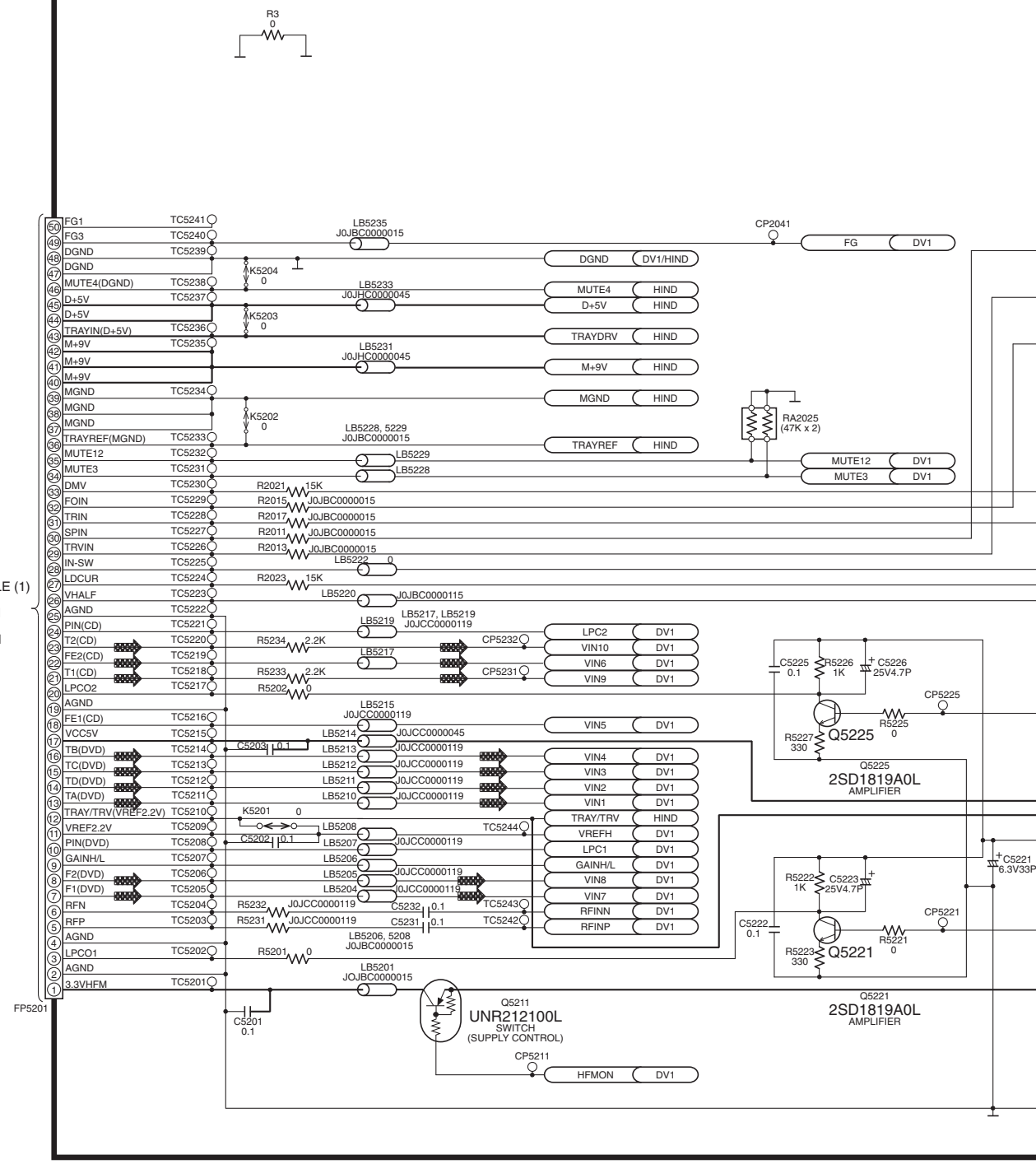
A DVD MODULE 1 CIRCUIT

——— : +B SIGNAL LINE ▨ : CD-DA SIGNAL LINE



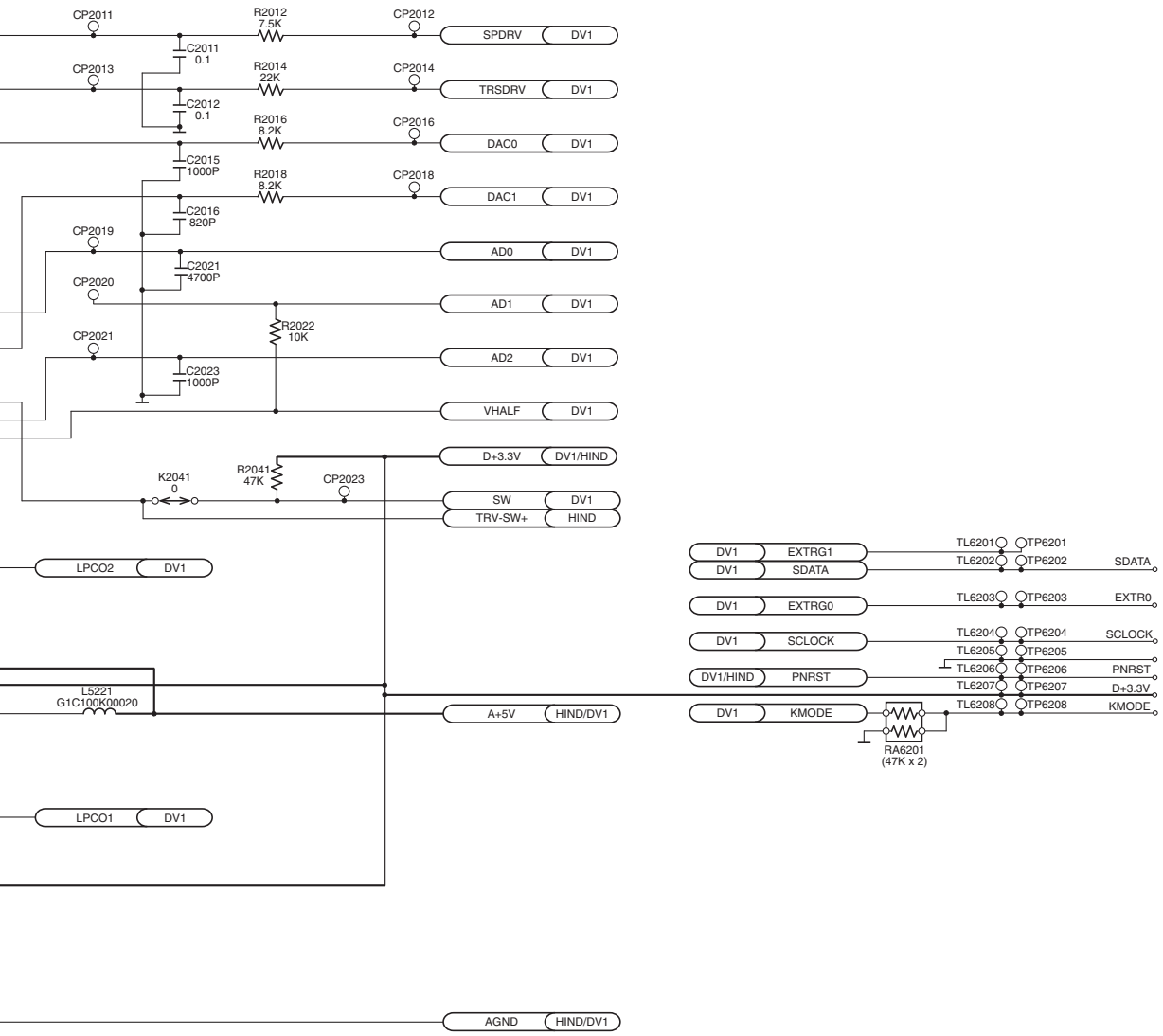
B DVD MODULE 2 (FORE) CIRCUIT

——— : +B SIGNAL LINE ▰▰▰ : CD-DA SIGNAL LINE



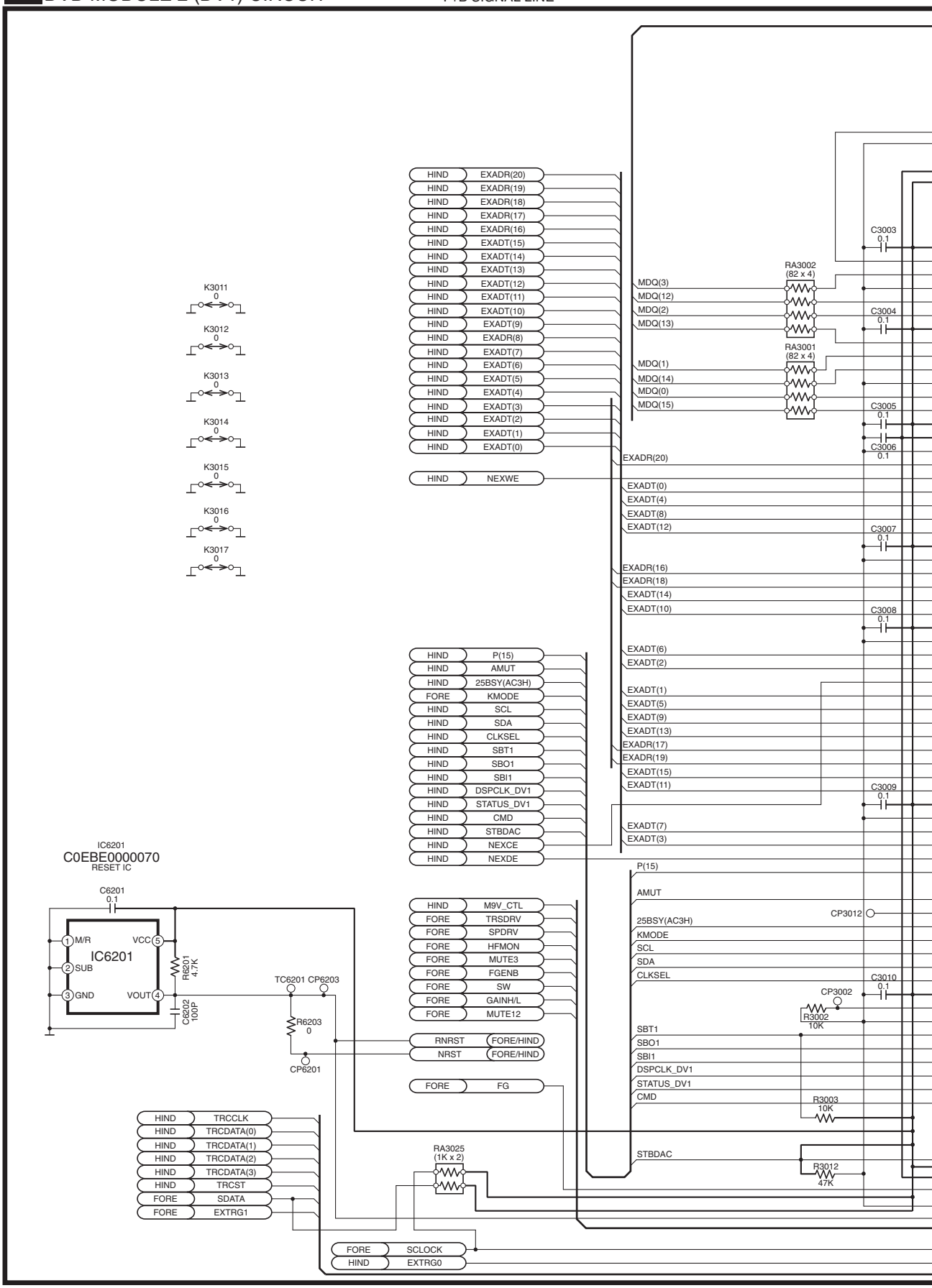
B DVD MODULE 2 (FORE) CIRCUIT

——— : +B SIGNAL LINE



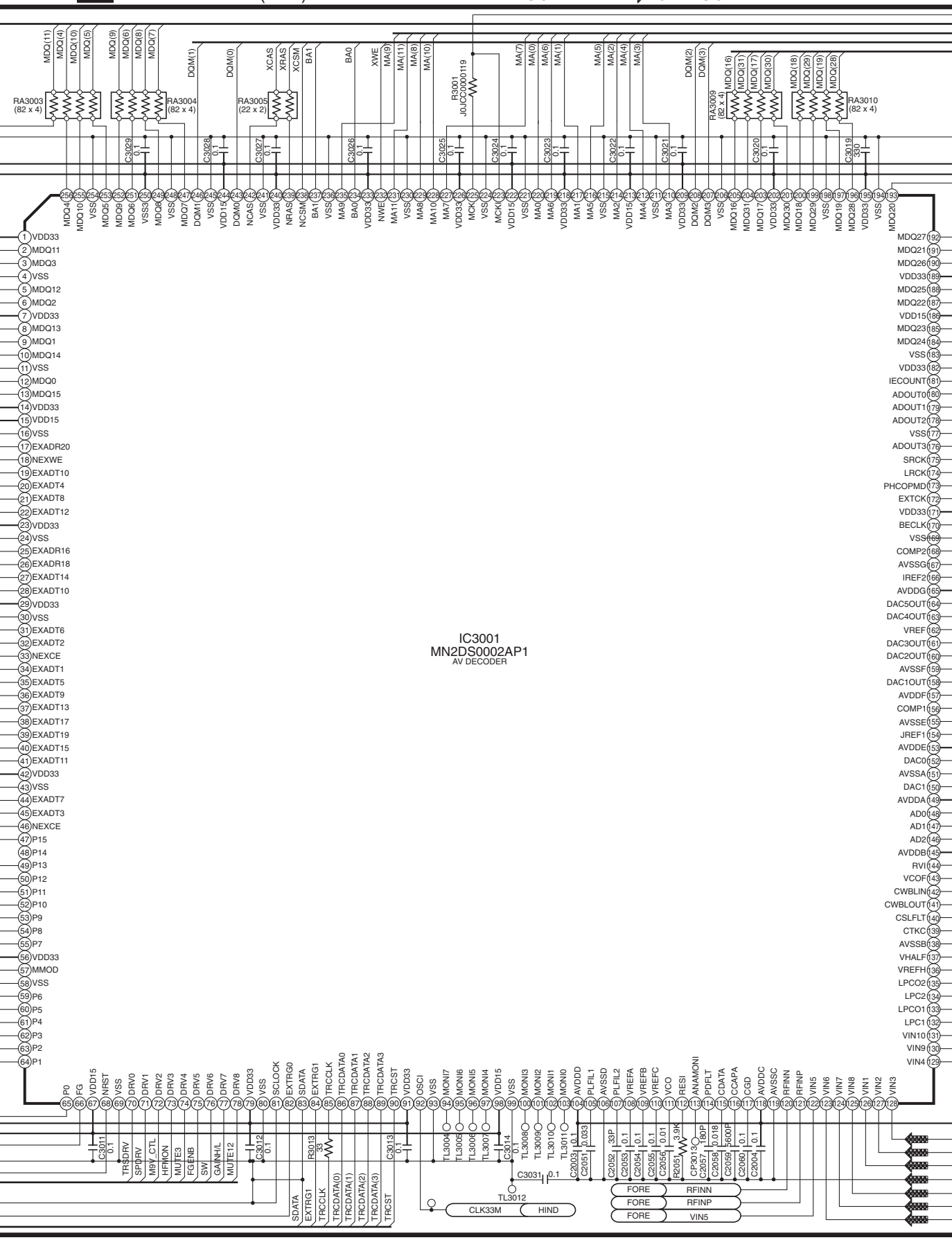
B DVD MODULE 2 (DV1) CIRCUIT

——— : +B SIGNAL LINE



B DVD MODULE 2 (DV1) CIRCUIT

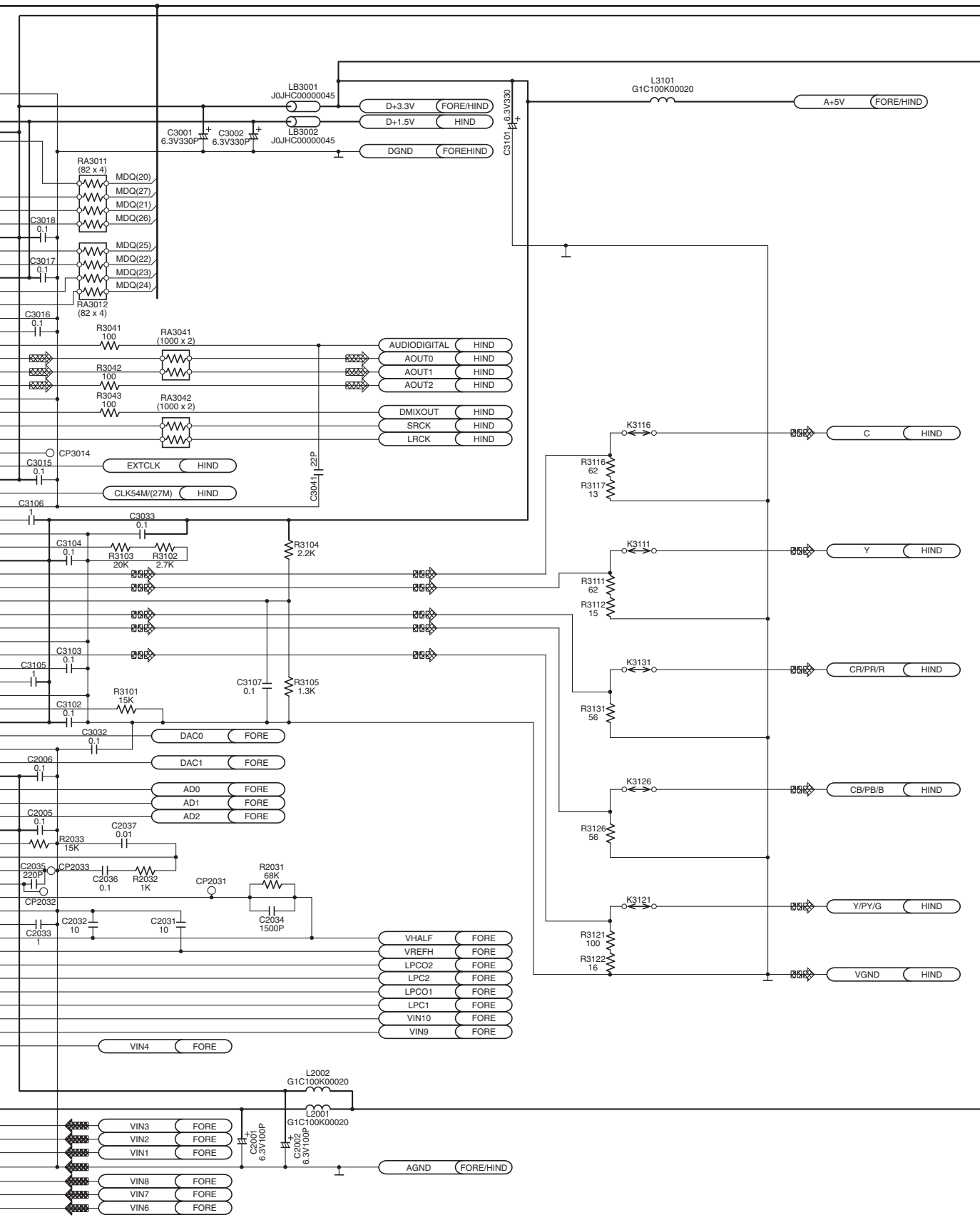
: +B SIGNAL LINE : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM - 7

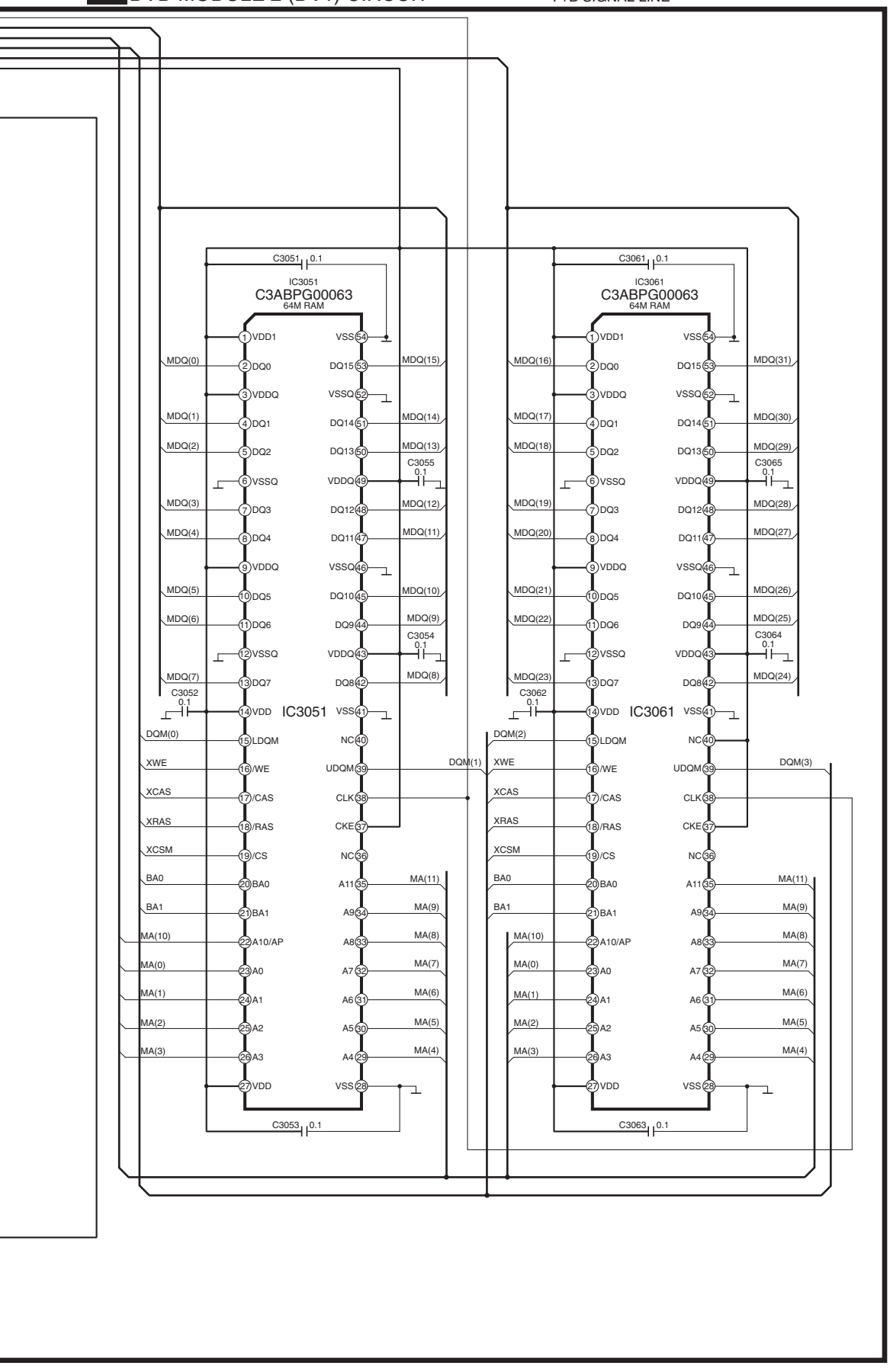
B DVD MODULE 2 (DV1) CIRCUIT

: CD-DA SIGNAL LINE
: +B SIGNAL LINE
: DVD (AUDIO) SIGNAL LINE
: DVD (VIDEO) SIGNAL LINE



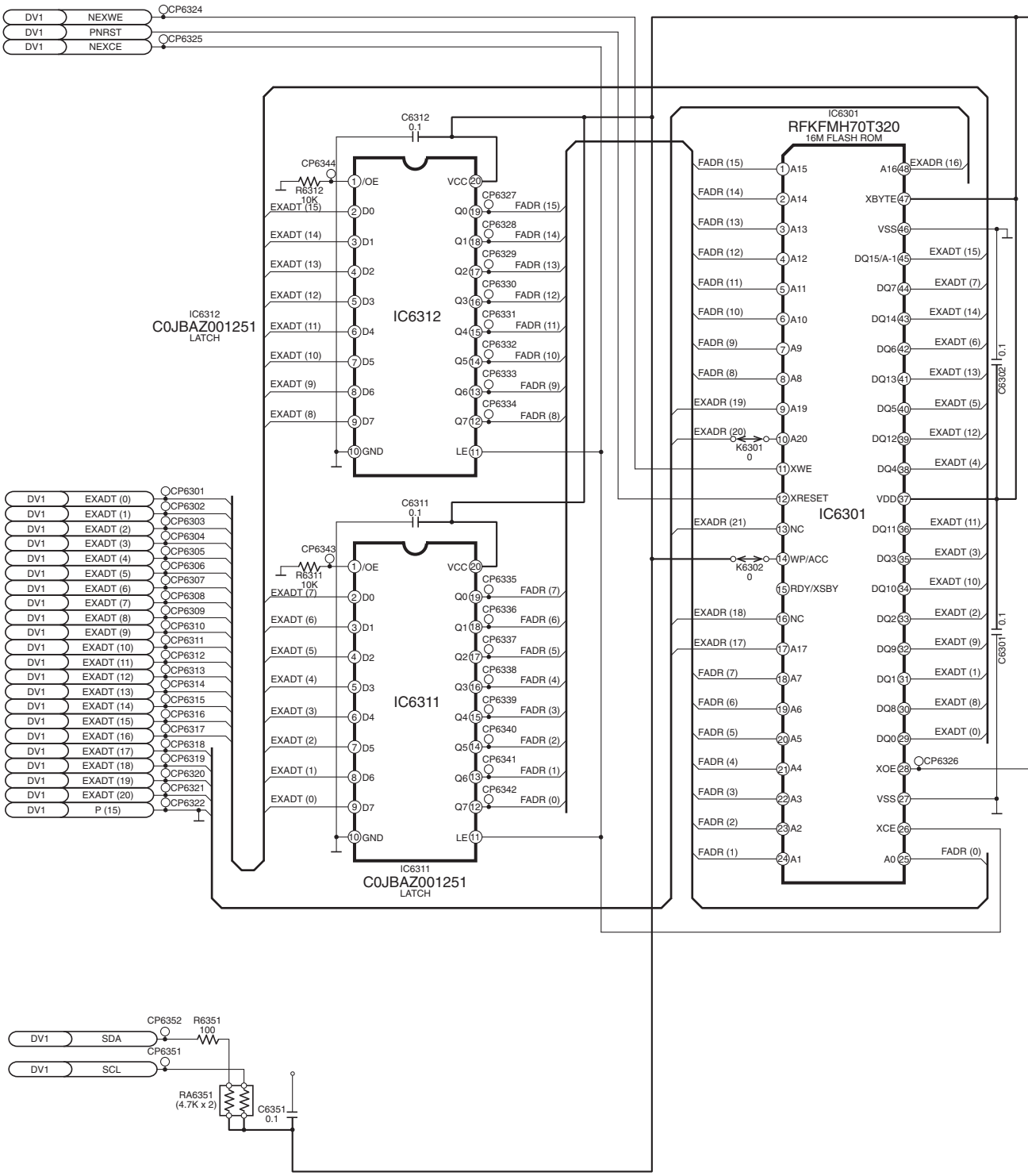
B DVD MODULE 2 (DV1) CIRCUIT

——— : +B SIGNAL LINE



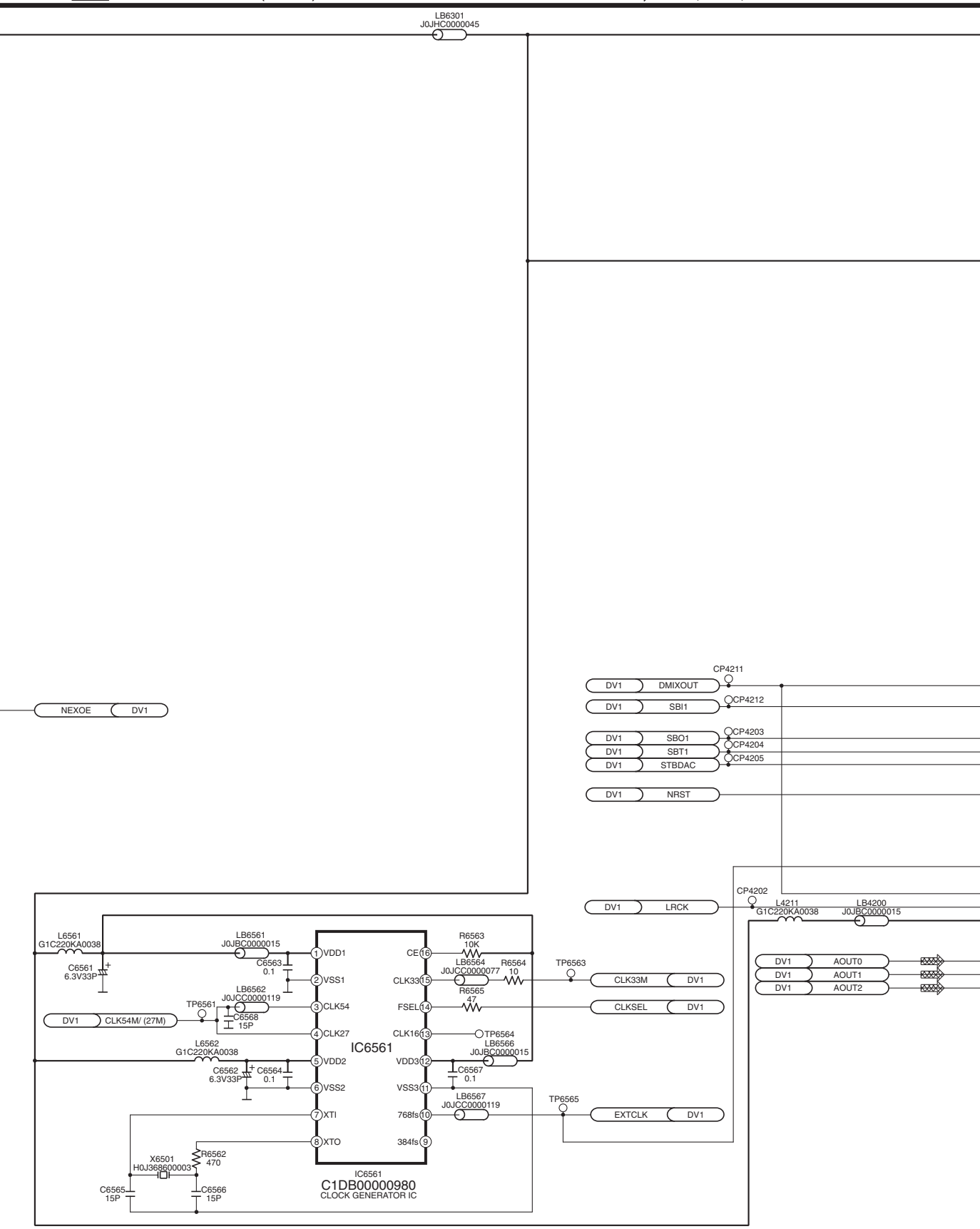
B DVD MODULE 2 (HIND) CIRCUIT

——— : +B SIGNAL LINE



B DVD MODULE 2 (HIND) CIRCUIT

——— : +B SIGNAL LINE : DVD (AUDIO) SIGNAL LINE

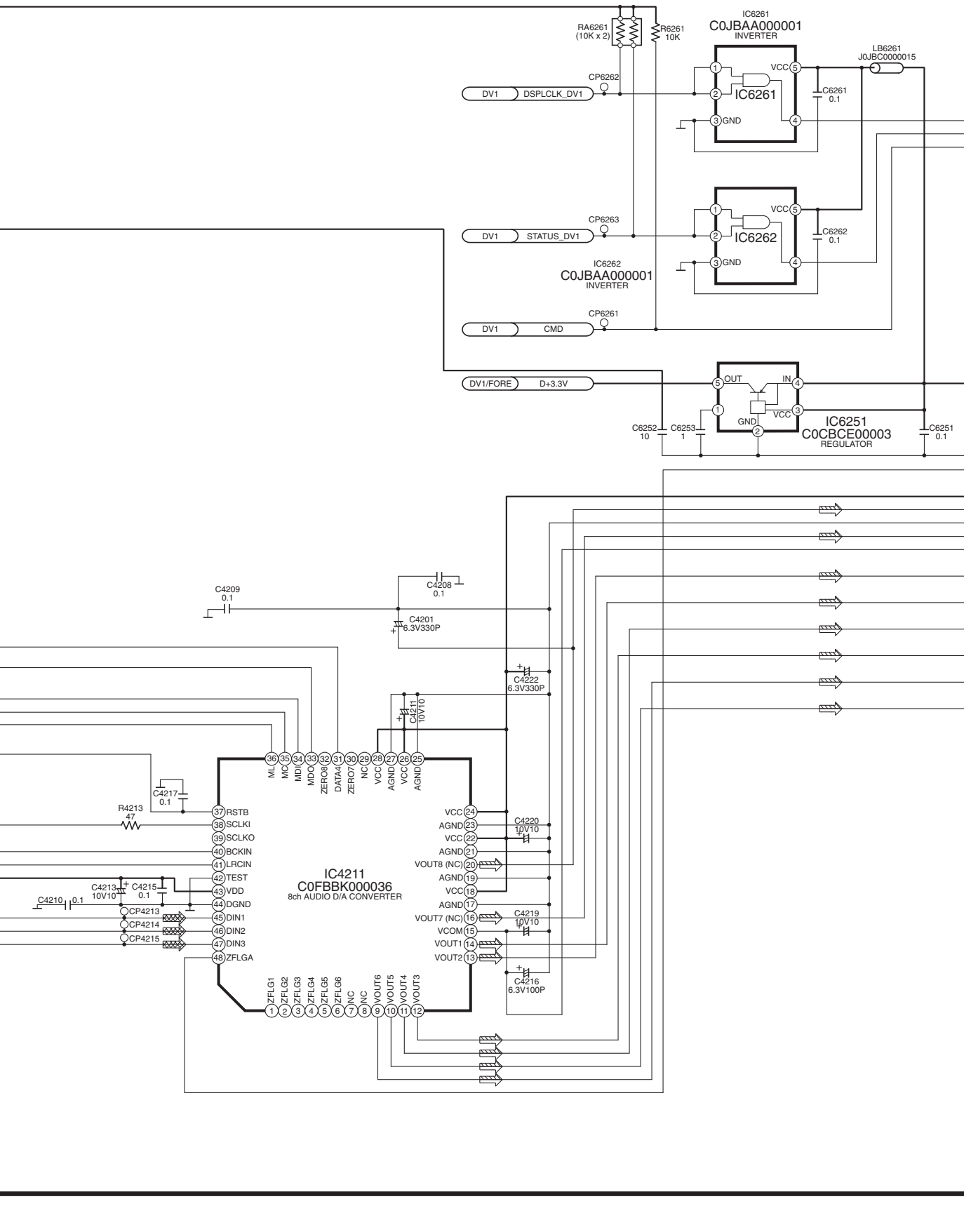


B DVD MODULE 2 (HIND) CIRCUIT

: +B SIGNAL LINE

: DVD (AUDIO) SIGNAL LINE

: MAIN SIGNAL LINE



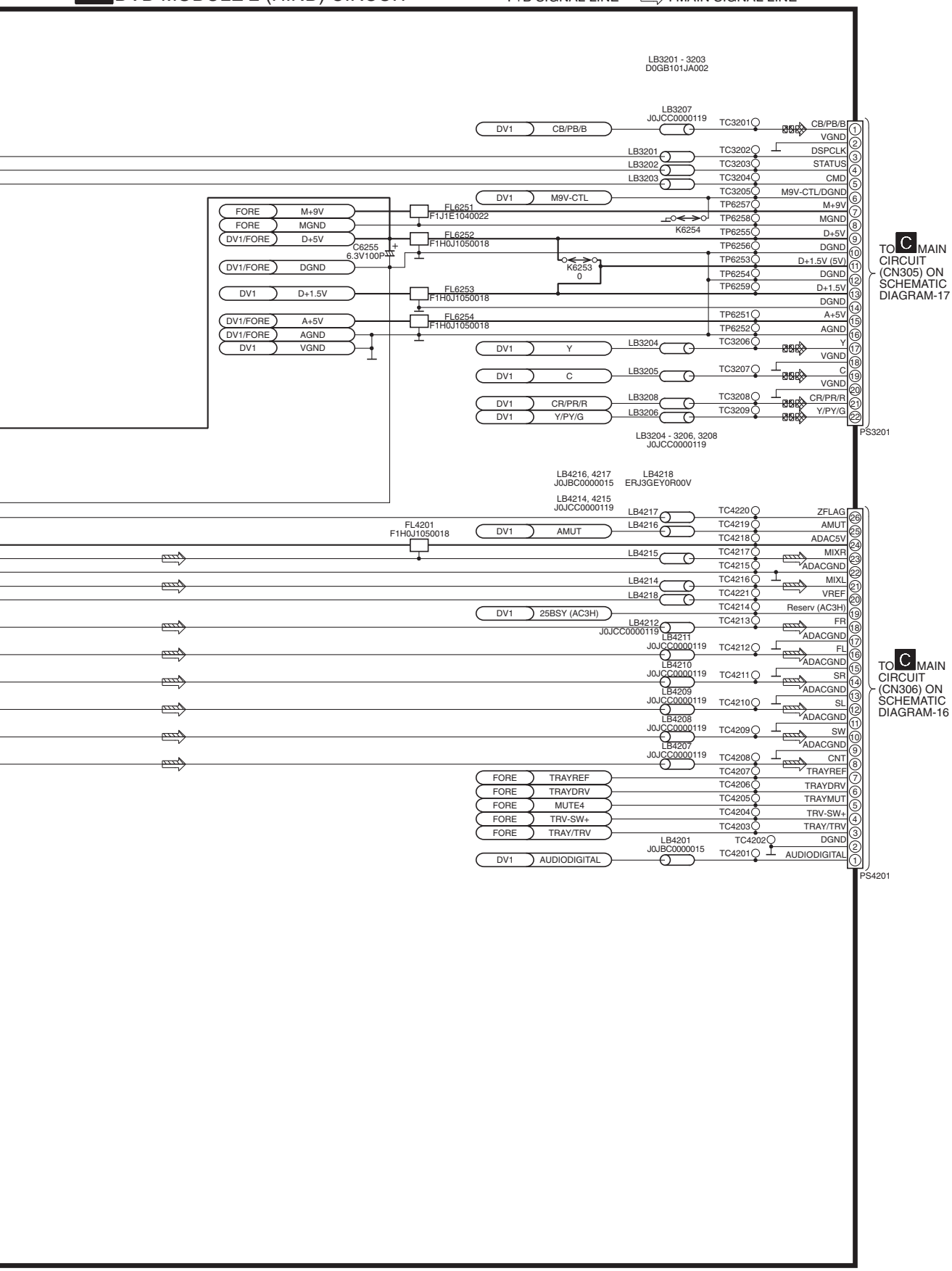
SCHEMATIC DIAGRAM - 12

B DVD MODULE 2 (HIND) CIRCUIT

——— : +B SIGNAL LINE

: DVD (VIDEO) SIGNAL LINE

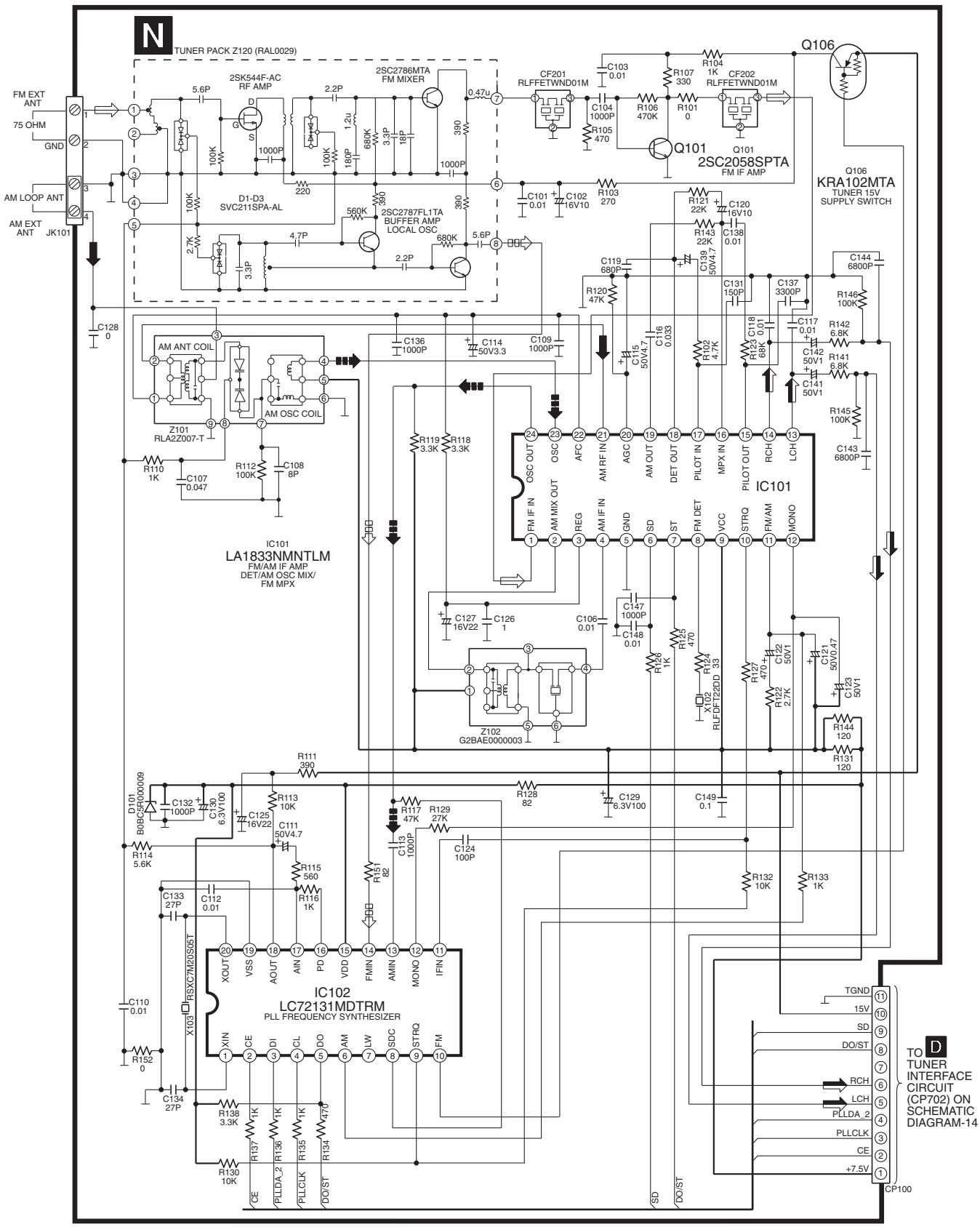
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 13

: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: FM SIGNAL LINE
: FM OSC SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE

K TUNER CIRCUIT

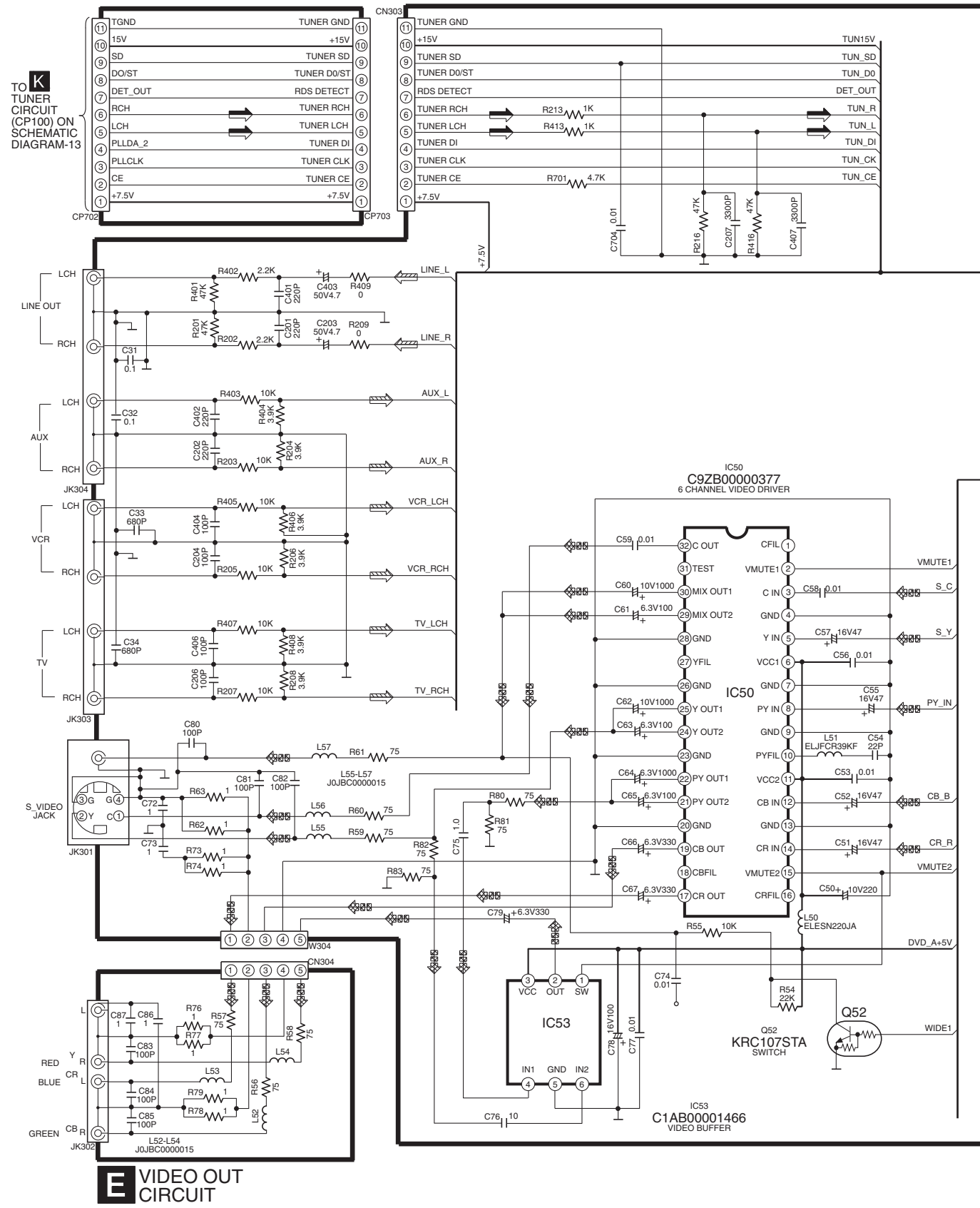


SCHEMATIC DIAGRAM - 14

: +B SIGNAL LINE
: -B SIGNAL LINE
: FM/AM SIGNAL LINE
: MAIN SIGNAL LINE
: DVD AUDIO SIGNAL LINE
: DVD VIDEO SIGNAL LINE

D TUNER INTERFACE CIRCUIT

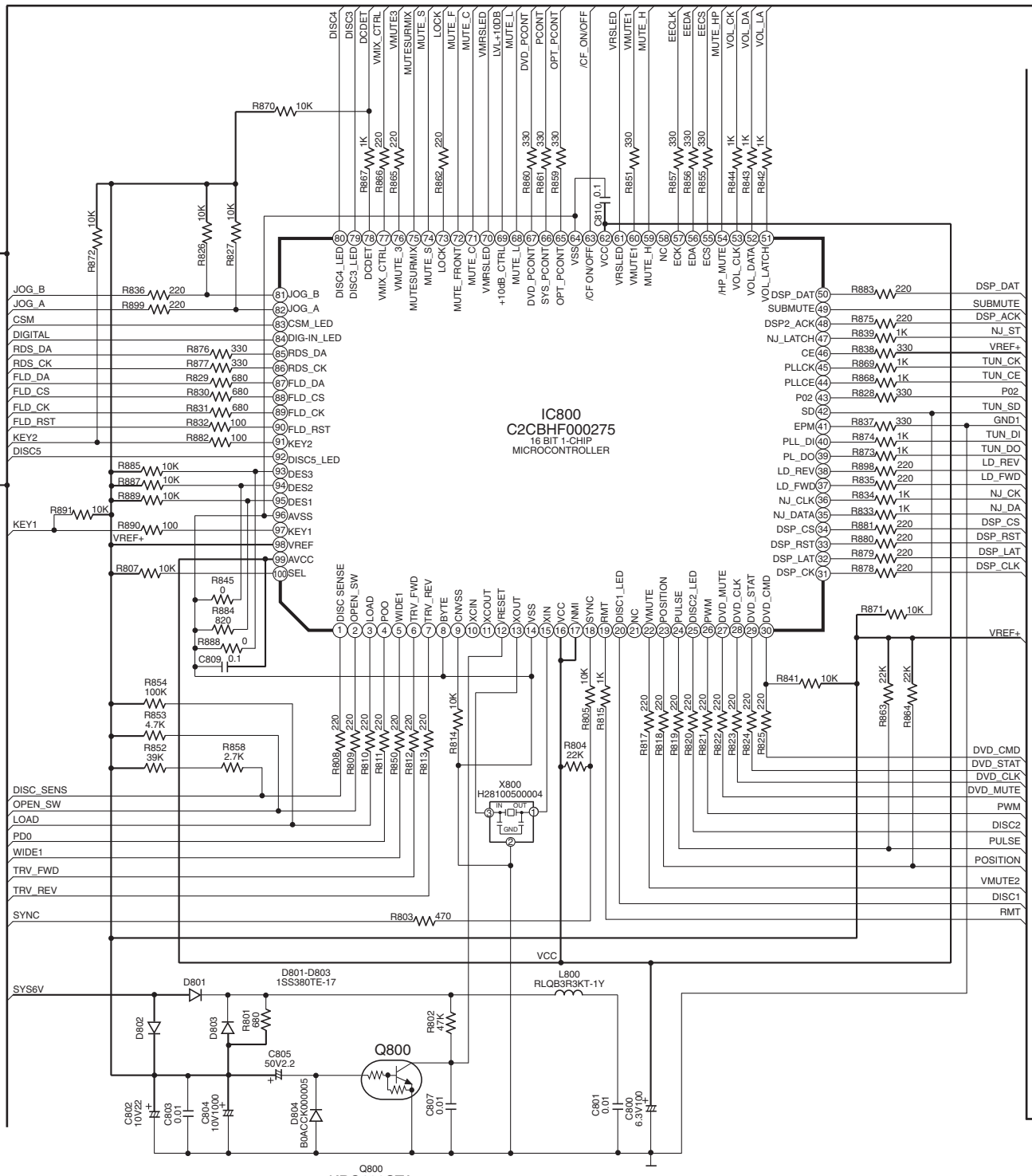
C MAIN CIRCUIT



E VIDEO OUT CIRCUIT

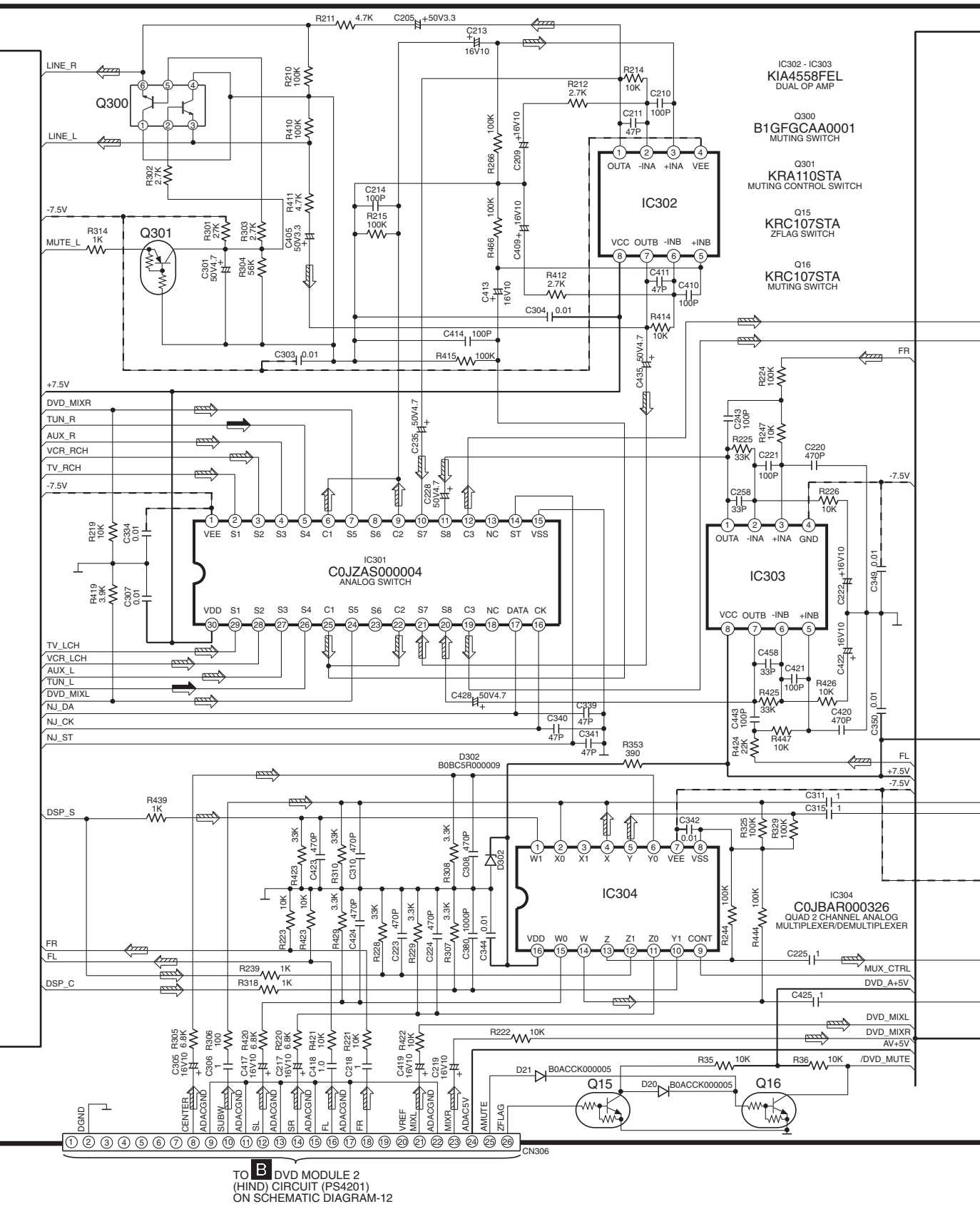
—— : +B SIGNAL LINE – – : -B SIGNAL LINE

C MAIN CIRCUIT



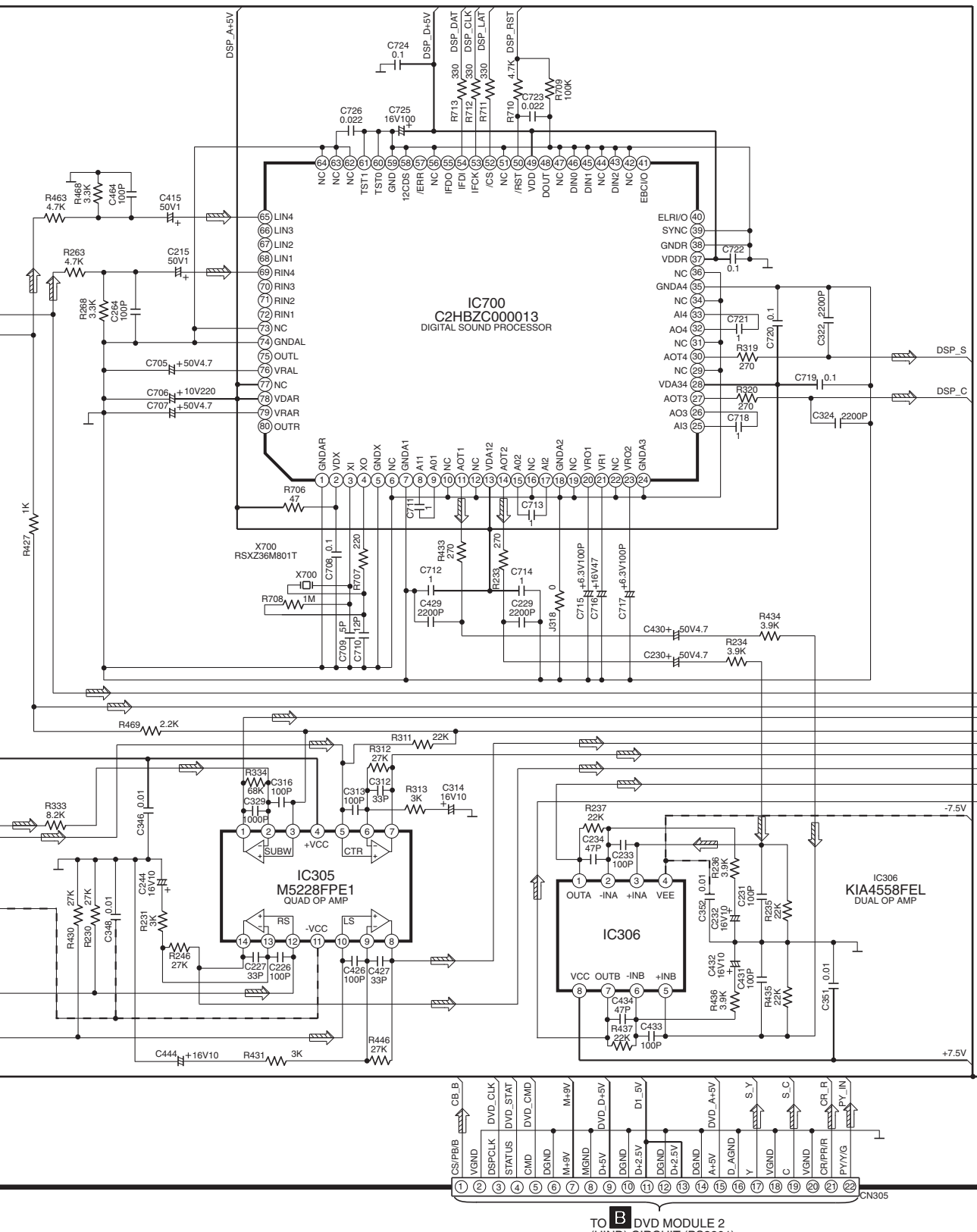
—— : +B SIGNAL LINE – – : -B SIGNAL LINE ➡ : FM/AM SIGNAL LINE ⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT



—— : +B SIGNAL LINE – – : -B SIGNAL LINE : DVD AUDIO SIGNAL LINE : MAIN SIGNAL LINE

C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 18

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT

TO G HEADPHONE CIRCUIT(CN901) ON SCHEMATIC DIAGRAM-23

CN301 (1 KEY1, 2 STBY_LED, 3 LED9V, 4 CSM, 5 DIGITAL, 6 VRMSLED, 7 VRSLED, 8 GND1, 9 HP_L, 10 HP_GND, 11 HP_R)

Q802
KRC103STA
POWER CONTROL SWITCH

Q802, R840 1.8K, SYS6V, PCONT

KEY1, LED9V, CSM, DIGITAL, VRMSLED, VRSLED, HP_L, HP_R

VREF+, EECS, EECLK

C811 0.022, R846 22K, C825 330P, R847 22K, C824 330P, R848 4.7K, C812 330P

R343 47K, R344 47K, R345 47K

C353 0.1, R346 390, D301 B0BC5R000009

MUX_CTRL, LEVEL1, LEVEL2, +7.5V

IC307

1 PORT 1		42 AVDD	R346 390, C353 0.1, D301
2 PORT 2	LEVEL1	41 CLOCK	R347 4.7K
3 PORT 3	LEVEL2	40 DATA	R348 2.2K, C354 47P
4 PORT 4	MUX_CTRL	39 LATCH	R349 2.2K, C355 47P
5 AVDD	+7.5V	38 DGND	
6 SWIN	C317 1, R315 1K, C356 0.1	37 AGND	
7 GNDS		36 SWOUT	C325 1, R327 6.8K
8 SRIN	C265 1, R232 1K	35 SROUT	C240 1, R240 1.5K
9 SLIN	C465 1, R432 1K	34 SLOUT	C440 1, R440 1.5K
10 GNDC		33 COUT	
11 CIN	C318 1, R316 1K	32 ROUT	C241 1, R241 2.7K
12 GNDR	R227 1K	31 LOUT	C441 1, R441 2.7K
13 RIN	C272 1	30 AVSS	C357 0.1
14 GNDL	R269 2.2K	29 CL1	C457 16V10
15 LIN	C472 1	28 CL2	
16 BYPASSR	DEC_FR, R238 1K, C260 1, R257 27K	27 CR1	C257 16V10
17 BYPASSL	DEC_FL, R438 1K, C460 1, R457 27K	26 CR2	
18 LTRE	C437 1000P	25 RTRE	C237 1000P
19 LBASS3	C438 0.015	24 RBASS3	C238 0.015
20 LBASS2		23 RBASS2	
21 LBASS1	C439 50V0.33	22 RBASS1	C239 50V0.33

IC307
C1BB00000782
6 CHANNEL ELECTRONIC VOLUME WITH TONE CTRL

-7.5V, VOL_LA, VOL_DA, VOL_CK, +7.5V

DISC1, DISC2, DISC3, DISC4, DISC5, JOG_B, JOG_A, VREF+, FL1, FL2, GND1, SW5V, -VP, KEY2, RMT, FLD_RST, FLD_CS, FLD_CK, FLD_DA, LED9V

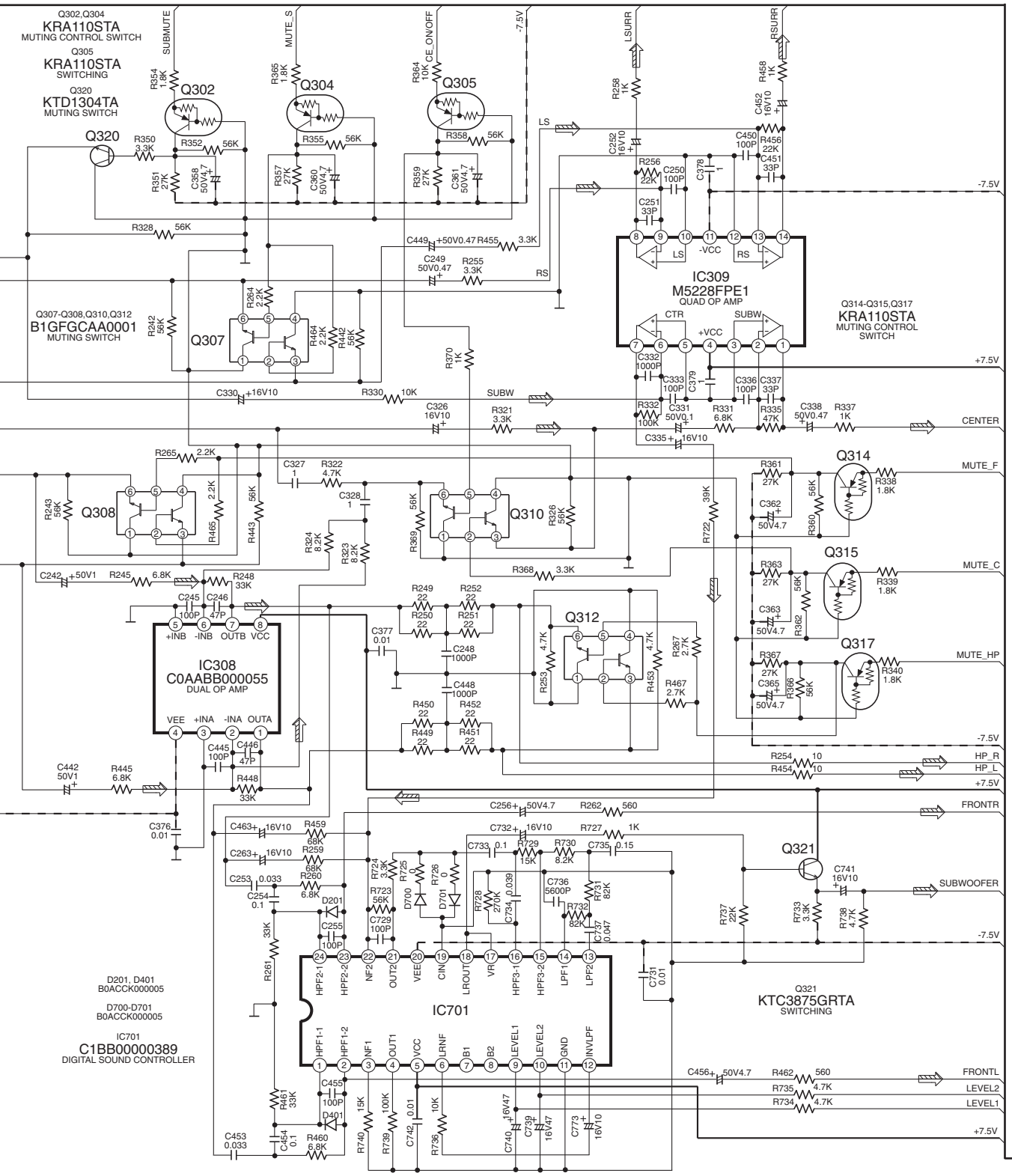
CN302 (1 DISC1, 2 DISC2, 3 DISC3, 4 DISC4, 5 DISC5, 6 JOG_B, 7 JOG_A, 8 VREF+, 9 FL1, 10 FL2, 11 GND1, 12 SW5V, 13 -VP, 14 KEY2, 15 RMT, 16 FLD_RST, 17 FLD_CS, 18 FLD_CK, 19 FLD_DA, 20 LED9V, 21, 22)

TO F PANEL CIRCUIT (CN900) ON SCHEMATIC DIAGRAM-22

SCHEMATIC DIAGRAM - 19

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

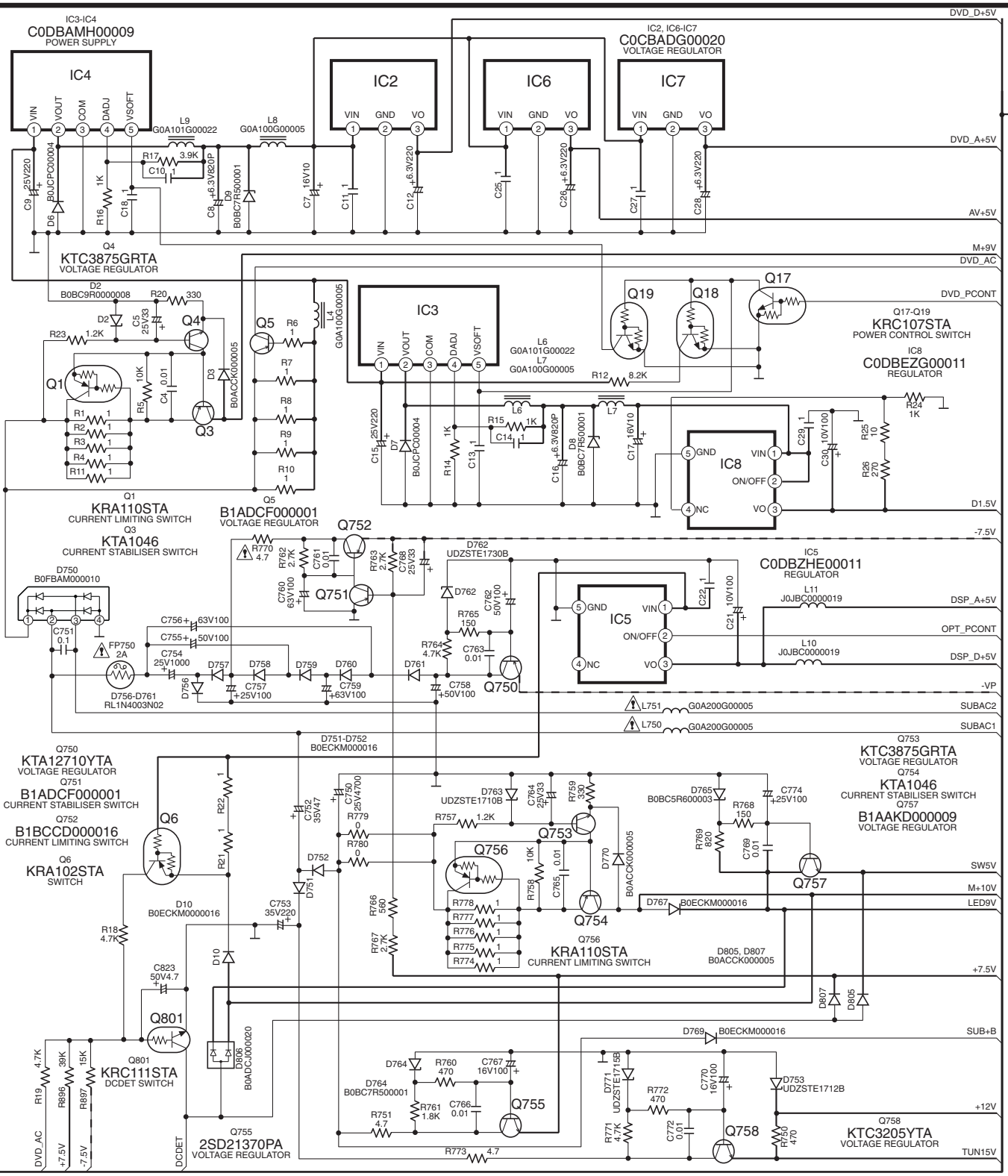
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 20

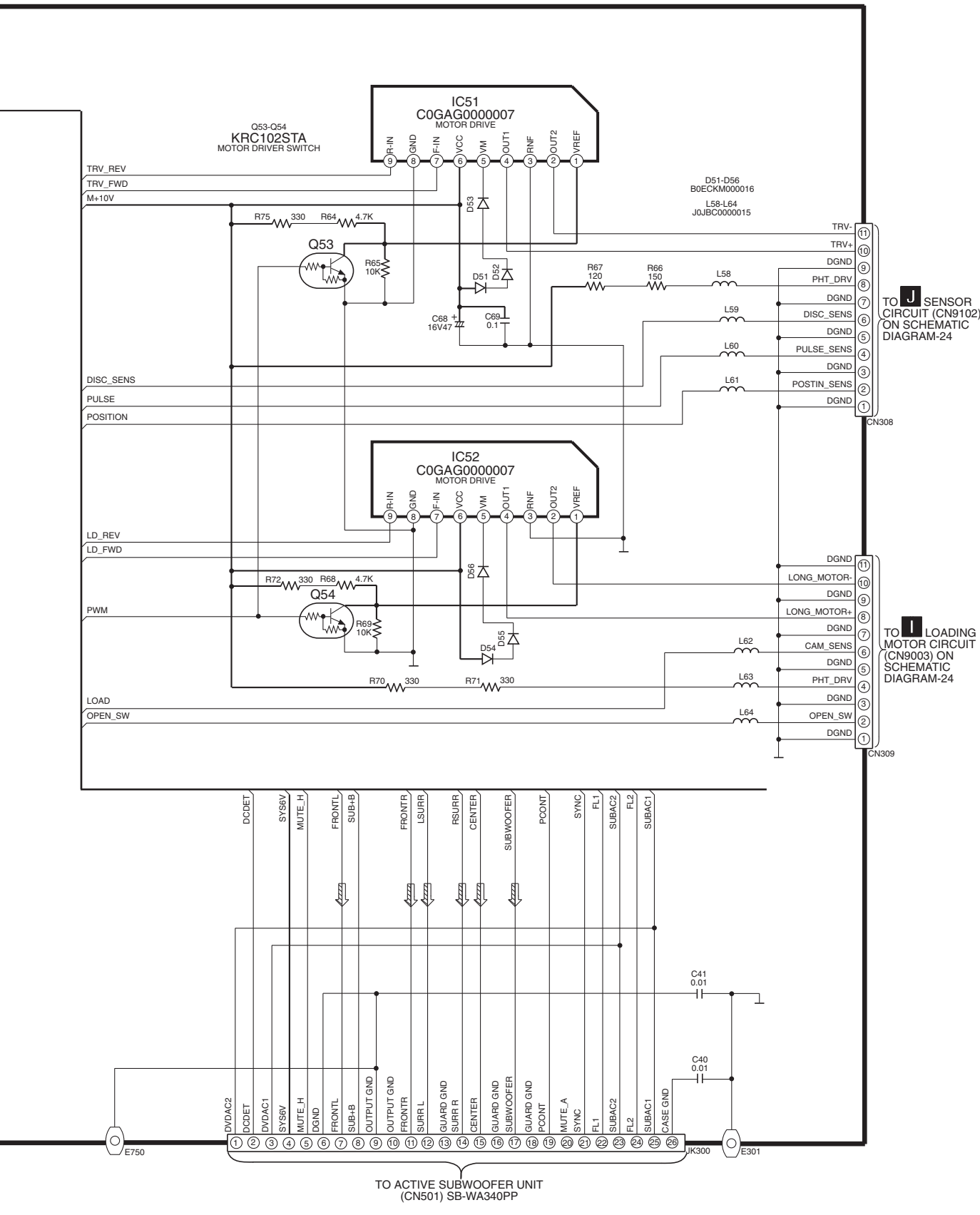
—— : +B SIGNAL LINE – – : -B SIGNAL LINE

C MAIN CIRCUIT



—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇒ : MAIN SIGNAL LINE

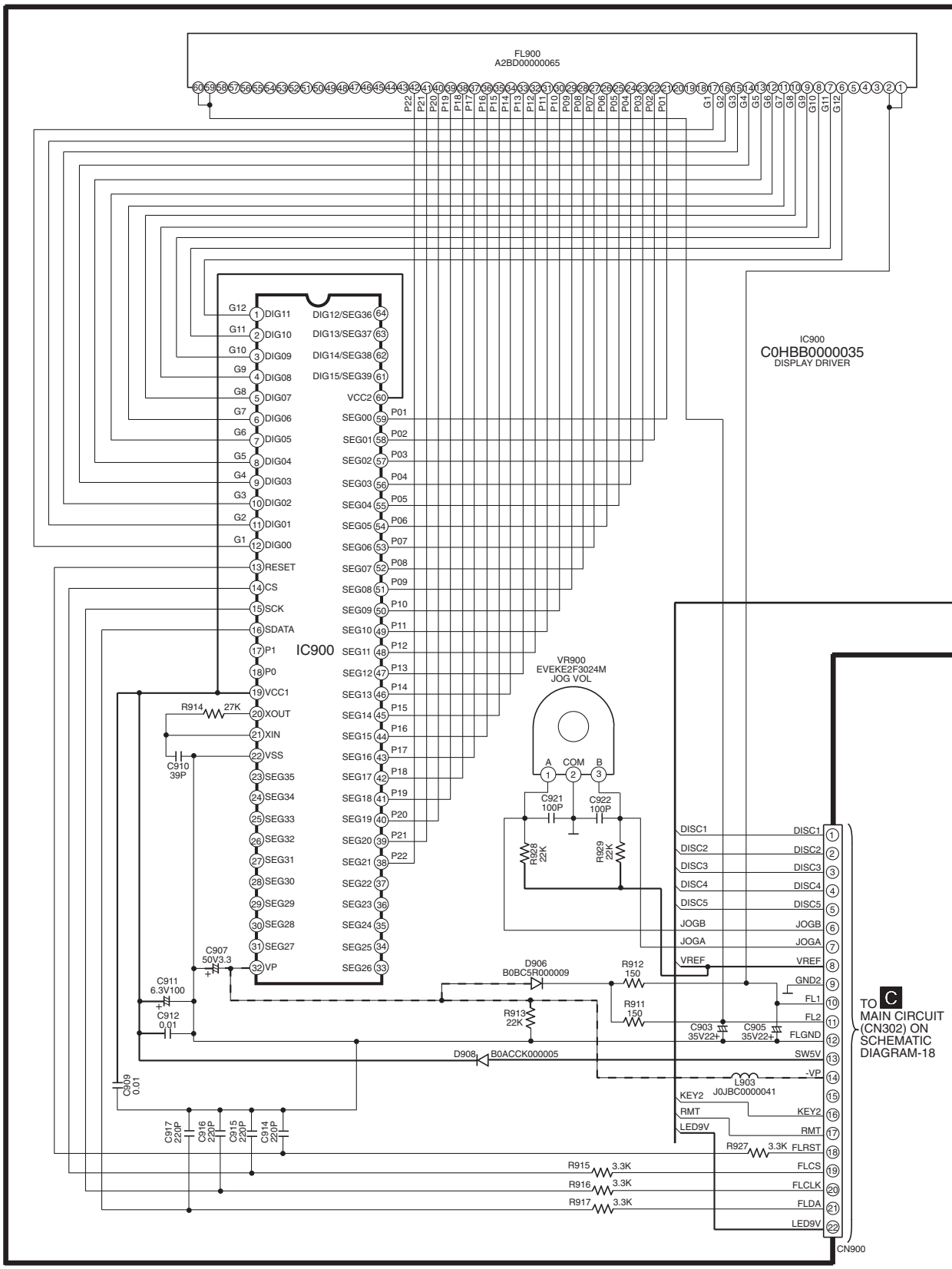
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 22

F PANEL CIRCUIT

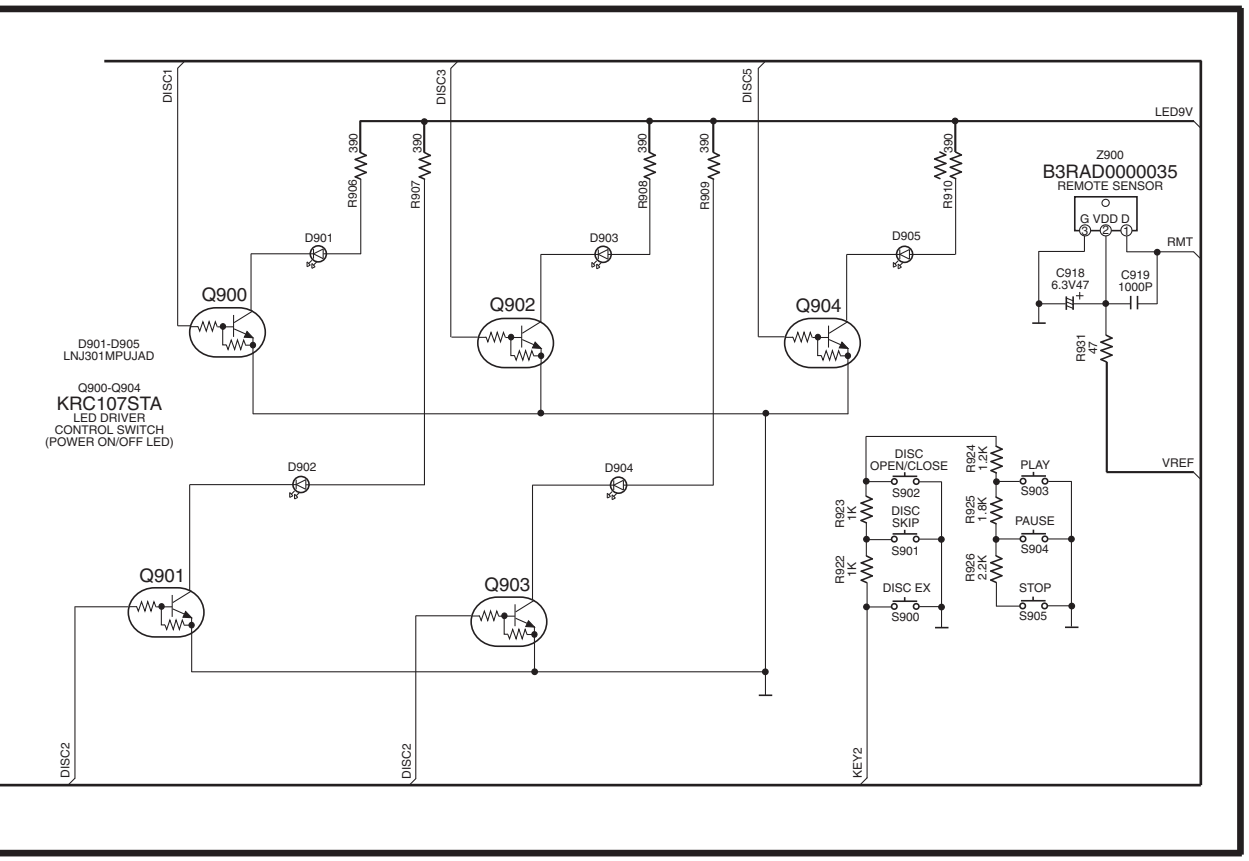
—— : +B SIGNAL LINE —— : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE



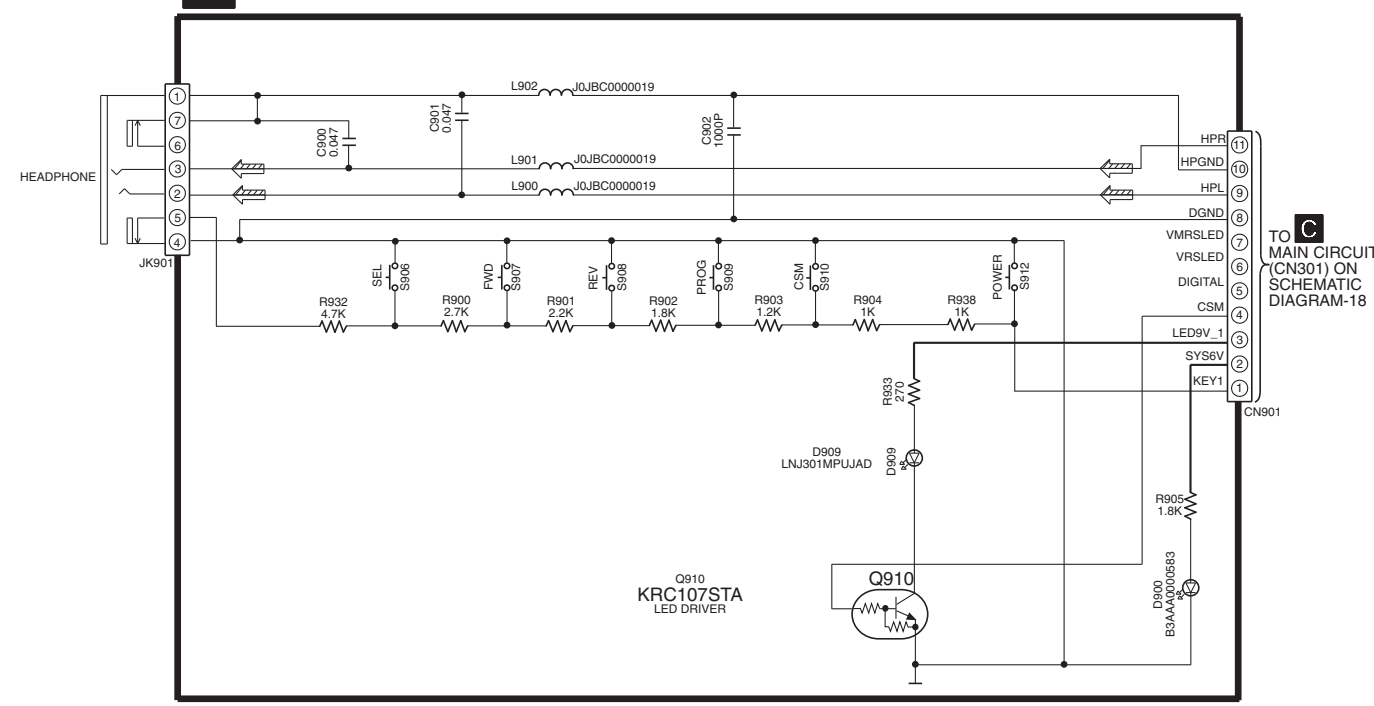
SCHEMATIC DIAGRAM - 23

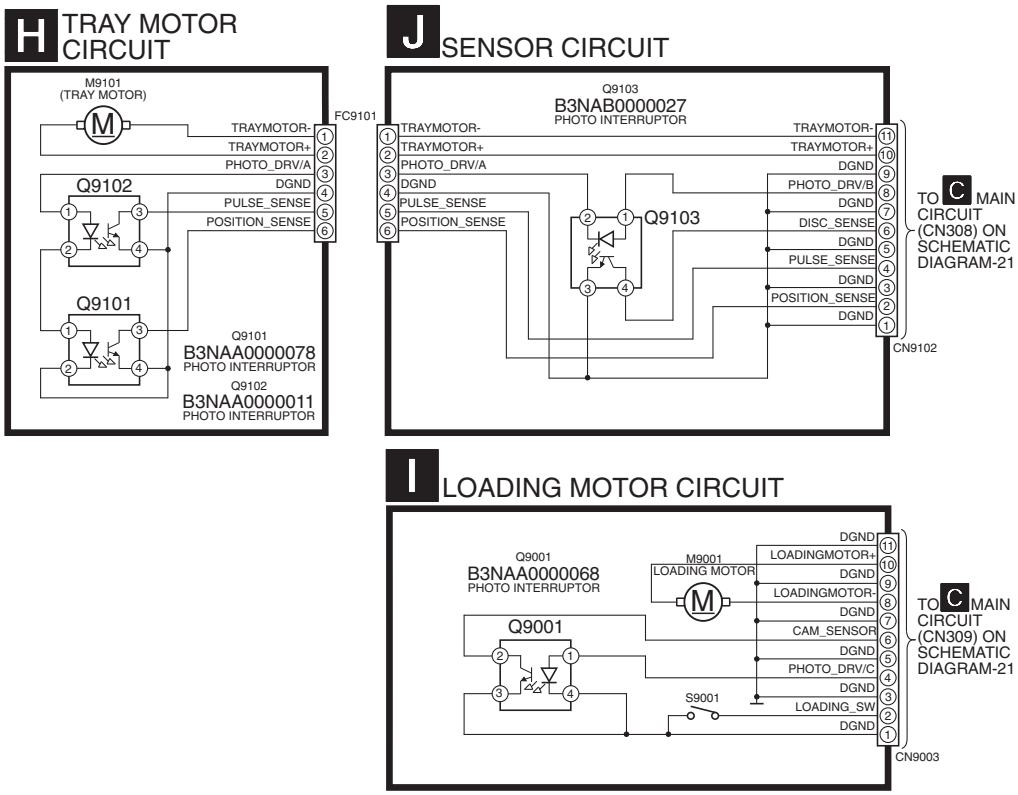
: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE

F PANEL CIRCUIT



G HEADPHONE CIRCUIT




H TRAY MOTOR CIRCUIT
M9101
(TRAY MOTOR)
TRAYMOTOR-
TRAYMOTOR+
PHOTO_DRV/A
DGND
PULSE_SENSE
POSITION_SENSE
Q9102
Q9101
Q9101
B3NAA0000078
PHOTO INTERRUPTOR
Q9102
B3NAA0000011
PHOTO INTERRUPTOR
FC9101
J SENSOR CIRCUIT
Q9103
B3NAB0000027
PHOTO INTERRUPTOR
Q9103
PHOTO_DRV/B
DISC_SENSE
TO C MAIN CIRCUIT (CN308) ON SCHEMATIC DIAGRAM-21
CN9102
I LOADING MOTOR CIRCUIT
Q9001
B3NAA0000068
PHOTO INTERRUPTOR
M9001
LOADING MOTOR
LOADINGMOTOR+
LOADINGMOTOR-
CAM_SENSOR
PHOTO_DRV/C
S9001
LOADING_SW
TO C MAIN CIRCUIT (CN309) ON SCHEMATIC DIAGRAM-21
CN9003